

JOURNAL
COMMENT Unpublished (1995)
Synonyms: UTR_02819_M32315, CHLC.UTR_02819_M32315.T36190
Contact: Dr. Jeffrey C. Murray

UofI

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Fax: (319) 356-3347
Email: jeff-murray@uiowa.edu

Primer A: CCCGACTCTCTGACTCTG
Primer B: GCTTCATGGGACTCAGG
STS size: 206
PCR Profile:

denature: 30 seconds at 94 degrees C
annealing: 75 seconds at 55 degrees C
extension: 15 seconds at 72 degrees C
PCR cycles: 27
extension: 6 minutes at 72 degrees C

Template: 30ng genomic DNA
Primer: each 1.5 pmole
dNTPs: each 200 uM
Taq Polymerase: 0.3 units
Total Vol: 10 uL

Buffer:

MgCl2: 1.5mM
KCl: 50mM
Tris: 10mM
pH: 8.3

FEATURES

Location/Qualifiers
1..870 Prepared with primer pairs derived from M32315.

source
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

STS
primer_bind 272..477

primer_bind 272..477

BASE COUNT 157 a 246 c 279 g 188 t

ORIGIN

Query Match

Best Local Similarity 100.0%; Score 51; DB 11; Length 870;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51

Db 175 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 225

RESULT 2

ARI52033

LOCUS ARI52033 2224 bp DNA linear PAT 08-AUG-2001

DEFINITION Sequence 2 from patent US 6232446.

ACCESSION ARI52033

VERSION ARI52033.1 GI:15118083

KEYWORDS

SOURCE Unknown.

ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.

TNF ligands

JOURNAL Patent: US 6232446-A 2 15-MAY-2001;

FEATURES 1..2224 Location/Qualifiers

source /organism="unknown"

BASE COUNT 435 a 698 c 689 g 402 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2224;
Best Local Similarity 100.0%; Pred. No. 9e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51

Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 3

AR308134

LOCUS AR308134 2224 bp mRNA linear PAT 12-JUN-2003

DEFINITION Sequence 1 from patent US 6555111.

ACCESSION AR308134

VERSION AR308134.1 GI:31699179

KEYWORDS

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.

TITLE Method of inhibiting the cytotoxic effect of TNF with TNF

JOURNAL Patent: US 6555111-A 1 29-APR-2003;

FEATURES 1..2224 Location/Qualifiers

source /organism="unknown"

BASE COUNT 435 a 698 c 689 g 402 t

ORIGIN

Query Match

Best Local Similarity 100.0%; Score 51; DB 6; Length 2224;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 51

Db 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGCTCT 1700

RESULT 4

A78517

LOCUS A78517 2253 bp DNA linear PAT 19-OCT-1999

DEFINITION Sequence 1 from Patent EP0585939.

ACCESSION A78517

VERSION A78517.1 GI:6090179

KEYWORDS

SOURCE unidentified

ORGANISM unidentified

REFERENCE 1 (bases 1 to 2253)

AUTHORS Mett,I. and Wallach,D.

TITLE TNF LIGANDS

JOURNAL Patent: EP 0585939-A 1 09-MAR-1994;

YEDA RES & DEV (IL)

FEATURES 1..2253 Location/Qualifiers

source /organism="unidentified"

/mol_type="genomic DNA"

/db_xref="taxon:32644"

90..1475

/note="unnamed protein product"

/codon_start=1

/protein_id="CAB58915.1"

/db_xref="GI:6090180"

/translation="MAPIAAVAALAVGIELMAAALPAQVAFPTPYADPGSTCRLE

YVDPAQWCKSCSKSGQHAQVFCRTSTVDSCEDSYTYLMMWVPCISGSCSS

DOVEAOACTREQNRICTRPGMYCALSQESCRCAPIKRCRPGVAPRSTVSDV

CKPAPGFSNTSTSDICRPHOICNVVAIPGASMDVCTSPTRSMAPGAVLPQ

PVSTRSCHOTPTPSPSTAPSTFLLPMPGSPPARSGTGFALPVGLIYGVATLGLIT

GVNCAVITQYKKKRLICQREAKYPHLPADARAGTQGEQHLITAPSSSSSLES

ASALDRAPTRNQPDPAGEVASGAEASAGSSDSSFGHGIVNVICIVNCSSSD

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LGVPDAGMKPS"

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BASE COUNT      440 a      709 c      698 g      406 t
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Query Match
  Best Local Similarity 100.0%; Score 51; DB 6; Length 2253;
  Match 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTT 51
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Db 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTT 1700

RESULT 5
HSTNFR2S10      2613 bp  DNA      linear  PRI 31-JUL-1996
LOCUS           Human tumor necrosis factor receptor 2 (TNFR2) gene, exon 10 and
DEFINITION      complete cds.
ACCESSION       U52165.1 GI:1469539
KEYWORDS
SEGMENT
SOURCE          Homo sapiens (human)
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
  1 (bases 1 to 2613)
  Beltlinger C.P., White P.S., Maris J.M., Sulman E.P., Jensen S.J.,
  Lepaslier D., Stallard B.J., Goeddel D.V., de Sauvage F.J. and
  Brodeur G.M.
  Physical mapping and genomic structure of the human TNFR2 gene
  Genomics 35 (1), 94-100 (1996)

TITLE
JOURNAL          Physical mapping and genomic structure of the human TNFR2 gene
MEDLINE          96299745
PUBMED           8661109
REFERENCE
  2 (bases 1 to 2613)
  Beltlinger C.P., White P.S., Maris J.M., Sulman E.P., Jensen S.J.,
  Lepaslier D., Stallard B.J., Goeddel D.V., de Sauvage F.J. and
  Brodeur G.M.
  Direct Submmission
  Submitted (25-MAR-1996) Christian P. Beltlinger, Division of
  Oncology, ARC Rm. 902 D, Children's Hospital of Philadelphia, 324
  South 34th Street, Philadelphia, PA 19104-4318, USA
  Location/Qualifiers
    1..2613
    /organism="Homo sapiens"
    /mol_type="genomic DNA"
    /db_xref="taxon:9606"
    /chromosome="1"
    /map="JP36.2"
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    U52159.1:7..156,U52160.1:7..100,U52161.1:95..330,
    U52162.1:83..160,U52163.1:7..41,U52164.1:7..211,125..2613)
    /product="tumor necrosis factor receptor"
    join(U52156.1:90..167,U52157.1:7..106,U52158.1:114..242,
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    U52162.1:83..160,U52163.1:7..41,U52164.1:7..211,125..405)
    /codon_start=1
    /product="tumor necrosis factor receptor"
    /protein_id="AAC50622.1"
    /db_xref="GI:1469541"
    /translation="MAPVAVMAALAVGLELMAAALPAQVAFTPYAPSPGSTRCLRE
    YDQTAQMCSCSKSPGHAKECTSDTVCDSCEBDSYTDLMNVAPCLSGSRCS
    DQVEQACTREBNRICTRPGWYCALSKQEGCLCAPKCRPGFVARPGETSDVQ
    CKPCAGTFENSTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTRSMAQVAHLPQ
    PVTSTSHOPTPEPSTLSTGPMGSPPARSGTGPALPVGILYGVATLGLIT
    GVNVCVMTQVKKRPLCTQREKVPHLPADKARCTGQEGQCHLITAPSSSSSSLES
    ASALDRKAPTRNQPAQVEVAGAEARASTSSSSPQGHSTQVNVCTIVNVCSSSD
    HSSQSSQASSTMGDTSSPSRSPDEQVPSFKECARSOLETPETLLGSTEKPLP
    LGVPDAGMKPS"
    join(U52157.1:7..112,U52158.1:1..248,U52159.1:1..200,
    U52160.1:1..106,U52161.1:1..336,U52162.1:1..218,
    U52163.1:1..58,U52164.1:1..234,1..2613)
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    <1..124
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/feature="TNFR2"
/number=9
125..2613
/gene="TNFR2"
/number=10

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ORIGIN
Query Match
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  Match 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTT 51
    |||||
Db 580 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCCTT 630

RESULT 6
LOCUS           3380 bp  DNA      linear  STS 14-JUN-1996
G26865
DEFINITION      human STS SHGC-11494, sequence tagged site.
ACCESSION       G26865
VERSION         G26865.1 GI:1375115
KEYWORDS
SOURCE          STS; STS sequence; primer; sequence tagged site.
ORGANISM        Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
  1 (bases 1 to 3380)
  Myers R.M.
  Unpublished (1995)
COMMENT
  Contact: Richard M. Myers
  Stanford Human Genome Center (SHGC)
  Stanford University School of Medicine
  Department of Genetics, W-344, Stanford, CA 94305, USA
  Tel: 4157259687
  Fax: 4157259689
  Email: myers@shgc.stanford.edu
  Primer A: CCCGACACCTAGACCTCTGA
  Primer B: CACAGAGAGTCAGGAGACTTGC
  STS size: 201
  PCR Profile:
    Initial incubation: 94 degrees C for 90 seconds
    Denaturation:      94 degrees C for 15 seconds
    Annealing:         62 degrees C for 23 seconds
    Polymerization:    72 degrees C for 30 seconds
    PCR Cycles:       30
    Thermal Cycler:    Perkin Elmer 9600
    Template:         25 ng
    Primer:           each 1 uM
    dNTPs:            each 200 uM
    Tag Polymerase:   0.05 units/ul
    Total Vol:        10 ul
  Buffer:
    MgCl2:            2.5 mM
    KCl:              50 mM
    Tris-HCl:         20 mM
    pH:              8.3

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FEATURES
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    /db_xref="taxon:9606"
    /map="1"
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  STS
    Prepared with primer pairs provided by Sandoz, derived from M32315
    -- Washington University/Merck EST sequence.

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 primer_bind complement(1741. .1761)
 BASE COUNT 703 a 1029 c 1004 g 644 t
 ORIGIN

Query Match 100.0%; Score 51; DB 11; Length 3380;
 Best Local Similarity 100.0%; Pred. No. 8.7e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 51
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 Db 1650 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 7
 AR215688
 LOCUS AR215688 3683 bp DNA linear PAT 25-SEP-2002
 DEFINITION Sequence 3 from patent US 6410324.
 ACCESSION AR215688
 VERSION AR215688.1 GI:23313944
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 3683)
 AUTHORS Bennett,C.F. and Watt,A.T.
 TITLE Antisense modulation of tumor necrosis factor receptor 2 expression
 JOURNAL Patent: US 6410324-A 3 25-SEP-2002;
 FEATURES Location/Qualifiers
 source 1..3683
 /organism="unknown"

BASE COUNT 781 a 1098 c 1086 g 718 t
 ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 8.6e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 51
 |||||
 Db 1650 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 8
 AX333705
 LOCUS AX333705 3683 bp DNA linear PAT 09-JAN-2002
 DEFINITION Sequence 4214 from Patent WO0194629.
 ACCESSION AX333705
 VERSION AX333705.1 GI:18124424
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1
 AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
 Horstgan,S., Soppet,D.R. and Weaver,Z.
 TITLE Cancer gene determination and therapeutic screening using signature
 JOURNAL Patent: WO 0194629-A 4214 13-DEC-2001;
 FEATURES Location/Qualifiers
 source 1..3683
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"

BASE COUNT 781 a 1098 c 1086 g 718 t
 ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 8.6e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 51
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 Db 1650 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 9
 AX348016
 LOCUS AX348016 3683 bp DNA linear PAT 06-FEB-2002
 DEFINITION Sequence 49 from Patent EP1172444.
 ACCESSION AX348016
 VERSION AX348016.1 GI:18614126
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1
 AUTHORS Schreiber,S., Hampe,J. and Mascheretti,S.
 TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr
 receptor II and method for detecting non-responders to anti-tnf
 therapy
 JOURNAL Patent: EP 1172444-A 49 16-JAN-2002;
 FEATURES Research Institute GmbH (DE)
 source Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 90..1475
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 /db_xref="GI:18614127"

CDS
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 CKPCAPGFTSNSTSDICRPHQICNVVAIPGNASMDVCTSTSTRMARGAVLPLQ
 PVSTRSOTOPTPEPSTAPSTFLLPMGSPSPARESTDPALPVGLIVGVALGLII
 GVNVGVITOVKKRKLCLQREAKVPHLPADARAGTQGEQOHLITAPSSSSLESS
 ASALDRAPTRNQAPGVEASGAEARASTGSSSPSGHGTOYNTCIVNVSSSD
 HSSQCSQASSSTMGTDBSSPSBPDEQVPSKRCARSLQLETFILIGSTERPLP
 LGVPDAGMKFPS"

mat.peptide 781 a 1098 c 1086 g 718 t
 BASE COUNT 781 a 1098 c 1086 g 718 t
 ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 8.6e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1650 AGCAGAGGAGGAGGAGTTGGGGAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 10
 AX348018
 LOCUS AX348018 3683 bp DNA linear PAT 06-FEB-2002
 DEFINITION Sequence 51 from Patent EP1172444.
 ACCESSION AX348018
 VERSION AX348018.1 GI:18614128
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1
 AUTHORS Schreiber,S., Hampe,J. and Mascheretti,S.
 TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr
 receptor II and method for detecting non-responders to anti-tnf
 therapy
 JOURNAL Patent: EP 1172444-A 51 16-JAN-2002;
 Conaris Research Institute GmbH (DE)

FEATURES
source
Location/Qualifiers
1..3683
/organism="Homo sapiens"
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90..1475
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PVSTRSGHTPTPEPSTAPSTFLPMGSPAPAGSTDFALPVGLIVGVALGILLI
GVNVCVIMTQVKKKPLCLQREAKVPHLPADKARCTQGEQOHLITAPSSSSSISS
ASALDRAPTRNOPAPGVEASGAEARASTGSSDPSGGGTQVNVTCIVNVCSSSD
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CDS
mat.peptide 780 a 1098 c 1087 g 718 t
BASE COUNT 780 a 1098 c 1087 g 718 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 51; DB 6; Length 3683;
Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
Db 1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 11
AX348020 3683 bp DNA linear PAT 06-FEB-2002
LOCUS
DEFINITION Sequence 53 from Patent EP1172444.
ACCESSION AX348020
VERSION AX348020.1 GI:18614130
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS
TITLE
Schneiber, S., Hampe, J., and Mascheretti, S.
1
Diagnostic use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf
therapy
Patent: EP 1172444-A 53 16-JAN-2002;
Journal Conaris Research Institute GmbH (DE)
FEATURES
source
Location/Qualifiers
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/codon_start=1
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PVSTRSGHTPTPEPSTAPSTFLPMGSPAPAGSTDFALPVGLIVGVALGILLI
GVNVCVIMTQVKKKPLCLQREAKVPHLPADKARCTQGEQOHLITAPSSSSSISS
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BASE COUNT 780 a 1098 c 1087 g 718 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 51; DB 6; Length 3683;
Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
Db 1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 12
AX698020 3683 bp DNA linear PAT 02-APR-2003
LOCUS
DEFINITION Sequence 1 from Patent WO03009864.
ACCESSION AX698020
VERSION AX698020.1 GI:29499058
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS
TITLE
Lucas, J., Dialynas, D., Briggs, K., and Scallia, A.
1
Agonists and antagonists of disomet for the treatment of metabolic
disorders
Patent: WO 03009864-A 1 06-FEB-2003;
Journal GENSET SA (FR)
FEATURES
source
Location/Qualifiers
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
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5'UTR
CDS
3'UTR
polyA_signal
BASE COUNT 781 a 1098 c 1086 g 718 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 51; DB 6; Length 3683;
Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
Db 1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 13
HUMNR 3683 bp mRNA linear PRI 07-JAN-1995
LOCUS
DEFINITION Human tumor necrosis factor receptor mRNA, complete cds.
ACCESSION M32315.1 GI:189185
VERSION M32315.1 GI:189185
KEYWORDS
c-myc proto-oncogene; necrosis factor receptor.
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS
Smith, C.A., Davis, T., Anderson, D., Solam, L., Beckmann, M.P.,

TITLE Jerzy R., Dower S.K., Cosman D. and Goodwin R.G.
A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins

JOURNAL Science 248 (4958), 1019-1023 (1990)

MEDLINE 90260639

COMMENT Original source text: Homo sapiens lung CDNA to mRNA. Draft entry and computer-readable sequence for [1] kindly submitted by C.A. Smith, 30-MAR-1990, for release after publication.

FEATURES

Source

1.3683
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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/cell_type="fibroblast"
/tissue_type="lung"
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90.1475
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/product="tumor necrosis factor receptor"
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CPKAPGTSNTSTSDICRPHQICNVVAIPENASMDAVCTSTFRSMAPEAVHLPQ
PVTSRQHTQPTPESTAPSTFLLPMGSPPEAGSTGDFALPVLIVGVALGLLI
GVNVCVIMTVQKKKPLCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSLESS
ASALDRAPTRNQPQAPGVEASGAEARASTSSSGSGHTQVNTCIVVCSHSSQ
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LGVPMKRPKRS"
90.1155
/gene="tnfr"
156.1472
/gene="tnfr"
/product="tumor necrosis factor receptor"

BASE COUNT 781 a 1098 c 1086 g 718 t

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 8.6e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAAGCCTCTGCTGCCATGCTGTCTCT 51
|||||
1650 AGCAGAGCAGCAGGAGTTGGGAAAAGCCTCTGCTGCCATGCTGTCTCT 1700

RESULT 14 BC042167 2282 bp mRNA linear PRI 09-JUN-2003
LOCUS Homo sapiens, similar to tumor necrosis factor receptor
DEFINITION superfamily, member 1B, clone IMAGE:5022068, mRNA, partial cds.
BC042167
ACCESSION BC042167.1 GI:27503828
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 2282)
Straussberg, R.
Direct Submission
Submitted (02-JUN-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgabs@mail.nih.gov

Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mgc@nih.gov
Akhter, N., Ayala, K., Beckert, S., Breen, K., Brinkley, C., Brooks, S.,
Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,
Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P.,
Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legaspi, R.,
Mauero, Q.L., Masello, C., Maskeri, B., Mastrian, S.D., McCloskey, J.C.,
McDowell, J., Pearson, R., Stantipop, S., Thomas, P.J., Touchman, J.W.,
Turgeon, C., Vogt, J.L., Walker, M.A., Weherby, K.D., Wiggins, L.,
Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LNL at: <http://image.lnl.gov>
Series: IPAL Plate: 44 Row: h Column: 16
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 23312365.
Location/Qualifiers

1.2282
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/db_xref="taxon:9606"
/clone="IMAGE:5022068"
/tissue_type="muscle, rhabdomyosarcoma"
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/lab_host="DH10B-R"
/note="Vector: pOTB7"
<1.1375
/codon_start=2
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superfamily, member 1B"
/protein_id="AAH42167.1"
/db_xref="GI:27503829"
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ALGGARLARRGQAHKVFCTKSDVCSDTYOLMNMVPCISGSCSSDVE
TQACTREBNRICTCRPQYCALSKQEGRLCAPRKCRPGVAPRGTSIDVY
CPKAPGTSNTSTSDICRPHQICNVVAIPENASMDAVCTSTFRSMAPEAVHLPQVST
RSQHTQPTPESTAPSTFLLPMGSPPEAGSTGDFALPVLIVGVALGLLI
GVNVCVIMTVQKKKPLCLQREAKVPHLPADKARGTQGEQOHLITAPSSSSLESSAS
ALDRAPTRNQPQAPGVEASGAEARASTSSSGSGHTQVNTCIVVCSHSSQ
HSSQSSQSSMTGDTSDSPSPDEQVPFSKSCARSGUETPETILGSTEKPLP
LGVPMKRPKRS"
459 a 706 c 708 g 409 t

BASE COUNT 459 a 706 c 708 g 409 t

ORIGIN

Query Match 96.9%; Score 49.4; DB 9; Length 2282;
Best Local Similarity 98.0%; Pred. No. 3.7e-08;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAAGCCTCTGCTGCCATGCTGTCTCT 51
|||||
1550 AGCAGAGCAGCAGGAGTTGGGAAAAGCCTCTGCTGCCATGCTGTCTCT 1600

RESULT 15 BC052977 3692 bp mRNA linear PRI 09-JUN-2003
LOCUS Homo sapiens tumor necrosis factor receptor superfamily, member 1B,
DEFINITION mRNA (cdna clone MGC:60023 IMAGE:6198614), complete cds.
BC052977
ACCESSION BC052977.1 GI:31419789
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 3692)
Straussberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,

TITLE
JOURNAL
MEDLINE
PUBMED
22388257
AUTHORS
REFERENCE
2 (bases 1 to 3692)
Straussberg, R.
Direct Submission
Submitted (02-JUN-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Dr. James R. Lupski
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-shgc.stanford.edu>
Contact: (Dickson, Mark) mdcpax11.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.

REMARK
COMMENT
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/ILNL at: <http://image.llnl.gov>
Series: IRAK Plate: 110 Row: n Column: 2
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 23312365.
Location/Qualifiers

FEATURES

source

gene

CDS

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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:60023 IMAGE:6198614"
/tissue_type="Peripheral Nervous System, sympathetic
trunk"
/clone_1ib="Lupski_sym pathetic_trunk"
/lab_host="DH10B"
/note="vector: pCMV-SPORT6"
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/gene="TNFRSF1B"
/note="synonyms: CD120b, TNF-R-II, TNFR, TNFR2, TNFR80,
p75TNFR, TBP11, TNF-R75, p75"
/db_xref="locusid:7133"
/db_xref="MIM:191191"
88..1473
/codon_start=1
/product="tumor necrosis factor receptor 2, precursor"
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/db_xref="GI:31419790"
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/translation="MAPVAVNALAVGLEMAAAHAPAOVAFPTPAPEPGSTCRARE
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DOVTOACTREQNRICTCPWYCALSKQEGRLCAPLRKCRPGVARGPGETSTDVV

CKPCAPGTSNTTSTSDICRPHQICNVVAIPGNASMDAVCTSTPTSMAPGAVHLPQ
PVSTRSQHTOPTPPTSTAPSTSFLLPMGPSPBAGSTGDPALPVGLIVGTALGLII
GVNVCVIMTQVKKKPLCLQREBAKVPLPADKARGTQGEQHLITAPSSSSSSLESS
ASALDRAPFTNPOQAGVEASGAGBARASTGSSDPGGHGTQVNTVCIYVCSSTD
HSSQSSQASSTMGDDTSSSPSPSKDQVPSKRECAFRQGLTFPTLLSGTEKPLP
LGVDDAGMKRS"
BASE COUNT 791 a 1098 c 1085 g 718 t
ORIGIN
Query Match 96.9%; Score 49.4; DB 9; Length 3692;
Best Local Similarity 98.0%; Pred. No. 3.6e-08;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 AGCAGAGGACGAGATTGGGAAAGCCTCTGTCGCATGTGTGTCCTCT 51
DB 1648 AGCAGAGGACGAGATTGTGAAAGCCTCTGTCGCATGTGTGTCCTCT 1698
Search completed: December 16, 2003, 18:41:37
Job time : 1225 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 17:58:55 ; Search time 1348 Seconds
(without alignments)
919.531 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagctg99.....ctgccatgctgctccctc 51

Scoring table:
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

EST:
1: em_escba:*
2: em_escbm:*
3: em_escin:*
4: em_escmu:*
5: em_escrov:*
6: em_escrpl:*
7: em_escro:*
8: em_escr1:*
9: gb_esc1:*
10: gb_esc2:*
11: gb_esc3:*
12: gb_esc4:*
13: gb_esc5:*
14: gb_esc6:*
15: em_escfun:*
16: em_escfun:*
17: em_escfun:*
18: em_escfun:*
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20: em_escfun:*
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24: em_escfun:*
25: em_escfun:*
26: em_escfun:*
27: em_escfun:*
28: gb_esc1:*
29: gb_esc2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	49.4	96.9	372	9	AA031826
2	49.4	96.9	735	14	CA426262
3	49.4	96.9	2291	11	BC011844
4	47.8	93.7	760	12	BI161017

5	47.8	93.7	932	12	EG829828
6	47.8	93.7	974	10	EG745202
7	47.8	93.7	1051	10	BF568409
8	47.8	93.7	1053	12	BQ052282
9	47.8	93.7	1102	12	BM917316
10	35.2	63.0	1183	10	BF569011
11	31.8	62.4	472	9	AV746487
12	28.6	56.1	945	13	BX327945
13	26.8	52.5	175	9	AM176594
14	26.8	52.5	175	9	AM062603
15	26.8	52.5	689	28	B2092262
16	26.6	52.2	765	12	BI102359
17	26.6	52.2	794	10	BF540303
18	26.4	51.8	368	13	BY500376
19	26.4	51.8	431	13	BY501435
20	26.4	51.8	446	13	BY474057
21	26.4	51.8	478	10	BB781904
22	26.4	51.8	685	10	EG077751
23	26.4	51.8	1066	10	BF568708
24	26.4	51.8	333	28	A2398572
25	26.4	51.8	428	13	BY432020
26	26.4	51.8	880	13	BU176729
27	25.6	50.2	383	13	BY007173
28	25.6	50.2	562	28	AQ470055
29	25.4	49.8	355	13	BY397944
30	25.4	49.8	377	10	AM938801
31	25.4	49.8	400	13	BY404734
32	25.4	49.8	337	9	AM801622
33	25.4	49.8	369	12	BM446184
34	25.4	49.8	413	12	BM780538
35	25.4	49.8	439	13	BY432386
36	25.4	49.8	475	10	BB759149
37	25.4	49.8	533	9	AI155645
38	25.4	49.8	728	28	BB898693
39	25.4	49.8	845	12	BI160187
40	24.8	48.6	203	9	AA795560
41	24.8	48.6	318	9	AA959223
42	24.8	48.6	323	9	AA218140
43	24.8	48.6	346	10	BF771882
44	24.8	48.6	347	9	AI840820
45	24.8	48.6	351	14	WI6081

ALIGNMENTS

RESULT 1
LOCUS AA031826
DEFINITION zkl4b1.r1 Soares pregnant uterus NBHPU Homo sapiens cDNA clone IMAGE:470493 5' similar to gb:U3315 TIMOR NECROSIS FACTOR RECEPTOR 2 PRECURSOR (HUMAN); contains element PTRS repetitive element ;
mRNA sequence.

ACCESSION AA031826
VERSION AA031826.1 GI:1501789
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 372)
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chappell, B., Chisoso, S., Dietrich, N., Dubugue, T., Favello, A., Gish, W., Hawkins, M., Hultman, M., Kucada, T., Lacey, M., Le, M., Le, N., Mardis, E., Moore, B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfs, J., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M. Generation and analysis of 280,000 human expressed sequence tags

TITLE JOURNAL
MEDLINE 97044478
PUBMED 8889549

COMMENT CONTACT: Wilson RK
Washington University School of Medicine

FEATURES	Location/Qualifiers
source	1. .735

REMARK	COMMENT
NIH-MGC Project URL: http://mgc.ncl.nih.gov	
Contact: MGC help desk	
Email: cgapbs-rc@mail.nih.gov	
Tissue Procurement: ATCC	
cDNA Library Preparation: Rubin Laboratory	
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ULIN)	
DNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC),	
Galtherdsburg, Maryland;	
Web site: http://www.nisc.nih.gov/	
Contact: nisc.mgc@nhgri.nih.gov	
Akhter,N., Ayele, K., Beckertom-Sternberg,S.M., Benjamin, B.,	
Bakelaar,R.W., Bouffard,G.G., Breen,K., Brinkley,C., Brooks,S.,	
Dietrich N.L., Granite,S., Guan,X., Gupta,J., Hahngilgi P.,	
Hansen, N., Ho,S.-L., Karlins,E., Kwong,P., Latic P., Legaapi, R.,	
Maduro,Q.L., Wasiello,C., Masekri,B., Mastrlian,S.D.,McCloskey,J.C.,	
McCowell,J., Pearson,R., Stanturpop, S., Thomas, P. J., Touchman,J.W.,	
Tsurgeon, C., Vogt, J.L., Walker,M.A., Wetheby,K.D., Wiggin, L.,	

Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRL Plate: 28 Row: 1 Column: 15
This clone has the following problem: retained intron.

FEATURES

source

1. 2291

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4111730"

/issue_type="Muscle, rhabdomyosarcoma"

/clone_1ib="NIH_MGC_17"

/lab_host="DH10B-R"

/note="Vector: POTB7"

BASE COUNT 461 a 708 c 713 g 409 t

ORIGIN

Query Match 96.9%; Score 49.4; DB 11; Length 2291;

Best Local Similarity 98.0%; Pred. No. 8.9e-06;

Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCCATGTTGTCCTCT 51

Db 1559 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCCATGTTGTCCTCT 1609

RESULT 4

LOCUS B161017 760 bp mRNA linear EST 05-JUL-2001

DEFINITION 602865227P1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:5019247 5',

mRNA sequence.

ACCESSION

B161017

B161017.1 GI:14621018

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE

1 (bases 1 to 760)

NIH-MGC <http://mgs.nci.nih.gov/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: L10C1834 row: e column: 08

High quality sequence stop: 723.

Location/Qualifiers

1. 760

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/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5019247"

/issue_type="epithelioid carcinoma cell line"

/lab_host="DH10B (phage-resistant)"

/clone_1ib="NIH_MGC_42"

/note="Organ: pancreas; Vector: POTB7; Site: 1: XhoI; Site: 2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

BASE COUNT 143 a 248 c 245 g 124 t

ORIGIN

Query Match 93.7%; Score 47.8; DB 12; Length 760;

Best Local Similarity 96.1%; Pred. No. 1.9e-05;

Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCCATGTTGTCCTCT 51

Db 671 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCCATGTTGTCCTCT 721

RESULT 5

LOCUS BG829828 932 bp mRNA linear EST 22-MAY-2001

DEFINITION 602764119P1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4899436 5',

mRNA sequence.

ACCESSION

BG829828

BG829828.1 GI:14177415

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE

1 (bases 1 to 932)

NIH-MGC <http://mgs.nci.nih.gov/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: L10C1791 row: e column: 05

High quality sequence stop: 833.

Location/Qualifiers

1. 932

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4899436"

/issue_type="epithelioid carcinoma cell line"

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/clone_1ib="NIH_MGC_42"

/note="Organ: pancreas; Vector: POTB7; Site: 1: XhoI; Site: 2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

BASE COUNT 162 a 296 c 296 g 177 t

ORIGIN

Query Match 93.7%; Score 47.8; DB 12; Length 932;

Best Local Similarity 96.1%; Pred. No. 2.1e-05;

Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCCATGTTGTCCTCT 51

Db 672 AGCAGAGGCGAGGAGTTGGGAAAGCCTCTGCTGCCATGTTGTCCTCT 722

RESULT 6

LOCUS BG745202 974 bp mRNA linear EST 15-MAY-2001

DEFINITION 602723532P1 NIH_MGC_113 Homo sapiens CDNA clone IMAGE:4850143 5',

mRNA sequence.
 BG745202
 EST. 1 (bases 1 to 974)
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Dr. Mark Watson
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Plate: L1061690 row: 0 column: 08
 High quality sequence stop: 420.
 Location/Qualifiers
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 /db_xref="taxon:9606"
 /clone="IMAGE:4850143"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_113"
 /note="Organ: Spleen; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC Library."

BASE COUNT
 301 a 245 c 285 g 143 t

ORIGIN
 Query Match 93.7%; Score 47.8; DB 10; Length 974;
 Best Local Similarity 96.1%; Pred. No. 2.1e-05;
 Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY
 1 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 51
 |||||
 14 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 64

RESULT 7
 BF568409 1051 bp mRNA linear EST 12-DEC-2000
 LOCUS 602184408F1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4300633 5',
 DEFINITION mRNA sequence.
 BF568409
 VERSION BF568409.1 GI:11641789
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT

. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Plate: L1061159 row: 0 column: 02
 High quality sequence stop: 769.
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 /db_xref="taxon:9606"
 /clone="IMAGE:4300633"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_42"
 /note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC Library."

BASE COUNT
 229 a 313 c 346 g 161 t

ORIGIN
 Query Match 93.7%; Score 47.8; DB 10; Length 1051;
 Best Local Similarity 96.1%; Pred. No. 2.2e-05;
 Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY
 1 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 51
 |||||
 671 AGCAGGCGAGCGAGTGGGGAAGCCTGCTGCGCATGTCCTCT 721

RESULT 8
 BQ052282 1053 bp mRNA linear EST 29-MAR-2002
 LOCUS BQ052282/c
 DEFINITION AGENCOURT 6868457 NIH_MGC_106 Homo sapiens CDNA clone IMAGE:5933514
 5', mRNA sequence.
 BQ052282
 VERSION BQ052282.1 GI:19811622
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
 CDNA Library Preparation: Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Plate: L1062118 row: c column: 16
 High quality sequence stop: 649.
 Location/Qualifiers
 1..1053
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5933511"
 /tissue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_106"
 /note="Organ: blood; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; CDNA made by oligo-dt priming. Directionally cloned

REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT

into ECORI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH-MGC Library."

BASE COUNT 216 a 328 c 237 g 212 t

Query Match 93.7%; Score 47.8; DB 12; Length 1053;
Best Local Similarity 96.1%; Pred. No. 2.2e-05;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGCTGGGGAAGCCTCTGCTGCCATGCTGTGTCCTCT 51
|||||
745 AGCAGAGGCGAGCTGGGGAAGCCTCTGCTGCCATGCTGTGTCCTCT 695

RESULT 9
BM917316

LOCUS 1102 bp mRNA linear EST 12-MAR-2002
DEFINITION AGENCOURT 6606593 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5483819
5', mRNA sequence.

ACCESSION BM917316
VERSION BM917316.1 GI:19367695
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 1102)
NIH-MGC http://mgi.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished
JOURNAL
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-rtmail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
cDNA Library Preparation: Rubin Laboratory
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM2012 row: b column: 12
High quality sequence stop: 507.

FEATURES
source Location/Qualifiers
1..1102

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5483819"
/tissue_type="natural killer cells, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_106"
/note="Organ: blood; Vector: pOTB7; Site 1: XhoI; Site 2:
ECORI; cDNA made by oligo-dT priming. Directionally cloned
into ECORI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH-MGC Library."
BASE COUNT 219 a 366 c 292 g 222 t 3 others

Query Match 93.7%; Score 47.8; DB 12; Length 1102;
Best Local Similarity 96.1%; Pred. No. 2.2e-05;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGGCGAGCTGGGGAAGCCTCTGCTGCCATGCTGTGTCCTCT 51
|||||
172 AGCAGAGGCGAGCTGGGGAAGCCTCTGCTGCCATGCTGTGTCCTCT 222

RESULT 10 1183 bp mRNA linear EST 12-DEC-2000
LOCUS 60218435371 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300500 3',
mRNA sequence.

ACCESSION BF569011
VERSION BF569011.1 GI:11642391
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 1183)
NIH-MGC http://mgi.nci.nih.gov/.

AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished
JOURNAL
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-rtmail.nih.gov
Tissue Procurement: ATCC
cDNA Library Preparation: Ling Hong/Rubin Laboratory
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM1159 row: i column: 13
High quality sequence stop: 716.

FEATURES
source Location/Qualifiers
1..1183

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4300500"
/tissue_type="epithelioid carcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_42"
/note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
Site 2: ECORI; cDNA made by oligo-dT priming.
Directionally cloned into ECORI/XhoI sites using the
following 5' adaptor: GGCAGCAG(G). Size-selected >500bp
for average insert size 1.8kb. Library constructed by Ling
Hong in the Laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC Library."
BASE COUNT 308 a 357 c 348 g 170 t

Query Match 69.0%; Score 35.2; DB 10; Length 1183;
Best Local Similarity 92.3%; Pred. No. 0.31;
Matches 48; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 1 AGCAGAGGCGAGCTGGGGAAGCCTCTGCTGCCATGCTGTGTCCTCT 51
|||||
669 AGCAGAGGCGAGCTGGGGAAGCCTCTGCTGCCATGCTGTGTCCTCT 618

RESULT 11 472 bp mRNA linear EST 19-OCT-2000
LOCUS AV746487
DEFINITION AV746487 NPC Homo sapiens cDNA clone NPCAM05 5', mRNA sequence.
ACCESSION AV746487
VERSION AV746487.1 GI:10904335
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 472)
Song, H., Peng, Y., Gu, Y., Yang, Y., Gao, G., Xiao, H., Xu, X., Li, N.,
Qian, B., Liu, F., Qu, J., Gao, X., Cheng, Z., Xu, Z., Zeng, L., Xu, S., Gu,
W., Tu, Y., Jia, J., Fu, G., Ren, S., Zhong, M., Lu, G., Ye, M., Zhang, Q.

TITLE
JOURNAL
COMMENT

 , Han, Z., Chen, Z., Hu, R. and Chen, J.
 Homo sapiens NPC library cDNA clones
 Unpublished
Contact: Qinghua Zhang

FEATURES	Location/Qualifiers
source	1..472

```

/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
BASE COUNT      194 a      295 c      280 g      168 t      8 others
ORIGIN

```

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 150)	HCGP http://www.ludwig.org.br/ORESTS .	The FAPESP/LIOR Human Cancer Genome Project	Unpublished	Contact: Simpson A. J. G. simsa@lior.usp.br

LOCUS AM062603 175 bp mRNA linear EST 06-OCT-1999
 DEFINITION RC0-CT0088-050899-001-B07 CT0088 Homo sapiens CDNA, mRNA sequence.
 ACCESSION AM062603
 VERSION AM062603.1 GI:6013988
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 175)
 HCGP <http://www.judwig.org.br/ORESTES>.
 The FAPESP/LICR Human Cancer Genome Project
 UNPUBLISHED
 CONTACT: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
 Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpson@judwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome
 Project. This entry can be seen in the following URL
 (<http://www.judwig.org.br/scripts/gethtml2.pl?cl=RC0-CT0088-050899-001-B07&cl=1999-08-05&cl=4=1>)
 Seq primer: puc 18 forward
 High quality sequence stop: 21
 High quality sequence stop: 175.
 Location/Qualifiers
 1..175
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /dev_stage="Adult"
 /clone_lib="CT0088"
 /note="Organ: colon; Vector: pUC18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196 716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
 BASE COUNT 32 a 65 c 46 g 32 t
 ORIGIN
 Query Match 52.5%; Score 26.8; DB 9; Length 175;
 Best Local Similarity 93.3%; Pred. No. 84;
 Matches 28; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 AGCAGAGGACGAGTGGGGAAGCCTCT 30
 |||||
 146 AGCAGAGGACGAGTGGGGAAGCCTCT 175
 |||||
 RESULT 15
 BZ092262 689 bp DNA linear GSS 10-OCT-2002
 LOCUS CH230-232B6.TV CHORI-230 Segment 1 Rattus norvegicus genomic clone
 DEFINITION CH230-232B6, genomic survey sequence.
 ACCESSION BZ092262
 VERSION BZ092262.1 GI:23730376
 KEYWORDS GSS.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.
 1 (bases 1 to 689)
 Zhao, S., Shetty, J., Shatsman, S., Tsegaye, G., Geer, K., Shvartsbeyn,
 A., Gebregorgis, E., Overton, L., Russell, D., Chen, D., Riggs, F., de
 Jong, P. and Fraser, C.M.
 TITLE Rat BAC End Sequences from Library CHORI-230 EcoRI segment
 JOURNAL Unpublished

COMMENT Other GSSs: CH230-232B6.TV
 Contact: Shaying Zhao
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (<http://www.chori.org/bacpac/rat30.htm>). For BAC library
 availability, please contact Pieter de Jong (pdjong@mail.cho.org).
 Clones may be purchased from BACPAC Resources
 (http://www.chori.org/bacpac/orering_information.htm). BAC end
 pages: http://www.tigr.org/tdb/bac_ends/rat/bac_end_intro.html
 Plate: 232 row: B column: 6
 Seg primer: T7
 Class: BAC ends.
 Location/Qualifiers
 1..689
 /organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /strain="BN/SaNHsd/MCW"
 /db_xref="taxon:10116"
 /clone="CH230-232B6"
 /sex="Female"
 /cell_type="Brain"
 /clone_lib="CHORI-230 Segment 1"
 /note="Vector: pTARBAC2.1; Site 1: EcoRI; Site 2: EcoRI;
 CHORI-230 Rat (BN/SaNHsd/MCW) BAC library produced by
 Pieter de Jong"
 BASE COUNT 211 a 159 c 128 g 191 t
 ORIGIN
 Query Match 52.5%; Score 26.8; DB 28; Length 689;
 Best Local Similarity 73.9%; Pred. No. 1.4e+02;
 Matches 34; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 QY 1 AGCAGAGGACGAGTGGGGAAGCCTCTGCGCATGTGTGTC 46
 |||||
 DB 140 AGCAGAGGACGAGTGGGGAAGCCTCTGCGCATGTGTGTC 185
 |||||
 Search completed: December 16, 2003, 19:04:16
 Job time : 1356 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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Run on:      December 16, 2003, 15:51:34 ; Search time 147 Seconds
              (without alignments)
              936.540 Million cell updates/sec
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Title: US-09-856-937A-1_COPY_580_630
 Perfect score: 51

Sequence: 1 agcagagcagcagctggg.....ctgccatggtgtgtccctct 51

Scoring table: IDENTITY_NUC

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing: Minimum Match 0%

Database :

1. N_GeneSeq_19Jun03: *

2. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1980.DAT.*

3. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1981.DAT.*

4. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1982.DAT.*

5. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1983.DAT.*

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7. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1985.DAT.*

8. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1986.DAT.*

9. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1987.DAT.*

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11. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1990.DAT.*

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14. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1993.DAT.*

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16. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA1995.DAT.*

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21. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA2000.DAT.*

22. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA2001A.DAT.*

23. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA2001B.DAT.*

24. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA2002.DAT.*

25. /SIDS1/gcgdata/geneSeq/geneSeqn-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result	No.	Score	Query Match	Length	DB	ID	Description
1	51	100.0	2224	16	AA089544	p75 Tumour Necrosis	
2	51	100.0	2613	21	AAA49207	Human tumour necro	
3	51	100.0	2613	24	AB235564	Human gene express	
4	51	100.0	3683	24	AB234910	Human gene express	
5	51	100.0	3683	24	AB074753	Human tumour necro	
6	51	100.0	3683	24	ABK93997	Human cDNA differe	
7	51	100.0	3683	24	ABL65877	Lung cancer relate	
8	51	100.0	3683	24	ABK33465	Human TNF receptor	

9	51	100.0	3683	24	ABK33466	Human TNF receptor
10	51	100.0	3683	24	ABK33467	Human TNF receptor
11	50.6	99.2	201	19	AAK12093	Human diallelic po
12	47.8	93.7	2339	10	AAQ010956	Human tumour necro
13	47.8	93.7	2339	12	AAQ029171	Human TNFBR-associ
14	47.8	93.7	2339	12	AAH08860	Human TNFBR-associ
15	47.8	93.7	2339	12	AAQ10907	40Kd TNF inhibitor
16	47.8	93.7	2394	22	AAOC83951	Human 40 kDa TNF i
17	47.8	93.7	15602	24	ABQ74767	Human TNFR2 partial
18	42.4	83.1	51	22	AAJ29680	Human TNF oligonuc
19	25.6	50.2	31	20	AAAO6309	Human diallelic po
20	25.6	50.2	84	22	ABAA50204	Human breast cell
21	25.6	50.2	84	22	ABAA68144	Human breast cell
22	25.6	50.2	84	22	ABAA35162	Human TNFBR2 for g
23	25.6	50.2	84	22	AAK16524	Human brain expres
24	25.6	50.2	84	22	AAK42280	Human bone marrow
25	25.6	50.2	84	22	AAI23051	Probe #12984 for g
26	25.6	50.2	84	22	AAI48356	Probe #17042 used
27	25.6	50.2	84	22	AAI08708	Probe #8699 used t
28	25.6	50.2	84	23	ABSA41888	Human liver single
29	25.6	50.2	84	24	ABSA16331	Human genome-deriv
30	25.6	50.2	416	22	ABAA45067	Human breast cell
31	25.6	50.2	416	22	ABAA55546	Human foetal liver
32	25.6	50.2	416	22	ABAA25550	Probe #3716 for ge
33	25.6	50.2	416	22	AAK03772	Human brain expres
34	25.6	50.2	416	22	AAK29240	Human bone marrow
35	25.6	50.2	416	22	AAI13833	Probe #3766 for ge
36	25.6	50.2	416	22	AAI35197	Probe #3883 used t
37	25.6	50.2	416	22	AAI03304	Probe #3695 used t
38	25.6	50.2	416	23	ABSA28859	Human liver single
39	25.6	50.2	416	24	ABSA03794	Human genome-deriv
40	25.6	50.2	464	22	ABAA43185	Human breast cell
41	25.6	50.2	464	22	ABAA53605	Human foetal liver
42	25.6	50.2	464	22	ABAA32360	Probe #1826 for ge
43	25.6	50.2	464	22	AAK01871	Human brain expres
44	25.6	50.2	464	22	AAK27328	Human bone marrow
45	25.6	50.2	464	22	AAI11902	Probe #1835 for ge

ALIGNMENTS

RESULT 1	
AAQ89544	
ID	AAQ89544 standard; DNA; 2224 BP.
XX	
AC	AAQ89544;
XX	
DT	25-MAR-2003 (updated)
DT	31-OCT-1995 (first entry)
XX	
DE	p75 Tumour Necrosis Factor Receptor.
XX	
KW	Li∧ tumour necrosis factor; nerve growth factor; TNF; NGF
KW	receptor; ss..
XX	
OS	Homo sapiens.
XX	
EH	Key
FT	CDS
FT	Location/Qualifiers
FT	90..1475
FT	/*tag= a
FT	/Product= p75 TNF receptor.
FT	1137..1139
FT	/*tag= b
FT	/transl_except= GCA encodes Glycine.
FT	1140..1142
FT	/*tag= c
FT	/transl_except= CCA encodes Alanine.
FT	1146..1148
FT	/*tag= d
FT	/transl_except= GUG encodes Glutamic acid.
FT	1149..1151
FT	/*tag= e

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FT      /cransl_except= GAG encodes Alanine.
PT      misc_difference 1152..1154
XX      /*tag= f
FT      /cransl_except= GCC encodes Arginine.
PT      misc_difference 1155..1157
XX      /*tag= g
FT      /cransl_except= AGT encodes Alanine.
PT      misc_difference 1158..1160
XX      /*tag= h
FT      /cransl_except= GGG encodes Serine.
PT      misc_difference 1161..1163
XX      /*tag= i
FT      /cransl_except= GCC encodes Threonine.
PT      misc_difference 1167..1169
XX      /*tag= j
FT      /cransl_except= GAG encodes Serine.
PT      misc_difference 1170..1172
XX      /*tag= k
FT      /cransl_except= GCC encodes Serine.
PT      misc_difference 1173..1175
XX      /*tag= l
FT      /cransl_except= CCG encodes Aspartic acid.
PT      misc_difference 1176..1178
XX      /*tag= m
FT      /cransl_except= GCC encodes Serine.
PT      misc_difference 1182..1184
XX      /*tag= n
FT      /cransl_except= ACC encodes Proline.
PT      misc_difference 1188..1190
XX      /*tag= o
FT      /cransl_except= AGC encodes Glycine.
PT      misc_difference 1191..1193
XX      /*tag= p
FT      /cransl_except= TCA encodes Histidine.
PT      misc_difference 1194..1196
XX      /*tag= q
FT      /cransl_except= GAT encodes Glycine.
PT      misc_difference 1197..1199
XX      /*tag= r
FT      /cransl_except= TCT encodes Threonine.
PT      misc_difference 2000..2002
XX      /*tag= s
FT      /cransl_except= TCC encodes Glutamine.
PT      misc_difference 2003..2005
XX      /*tag= t
FT      /cransl_except= CCT encodes Alanine.
PT      misc_difference 2006..2008
XX      /*tag= u
FT      /cransl_except= GGT encodes Proline.
PT      misc_difference 2012..2014
XX      /*tag= v
FT      /cransl_except= CAT encodes Valine.
PT      misc_difference 2015..2016
XX      /*tag= w
FT      /cransl_except= GGG encodes Glutamic acid.
PT      misc_difference 2017..2018
XX      /*tag= x
FT      /cransl_except= ACC encodes Alanine.
PT      misc_difference 2019..2021
XX      /*tag= y
FT      /cransl_except= CAG encodes Serine.
XX      /cransl_except= CAG encodes Serine.
XX      EP648783-A1.
XX      19-APR-1995.
XX      11-OCT-1994; 94EP-0116015.
XX      12-OCT-1993; 93IL-0107267.
XX      (YEDA ) YEDA RES & DEV CO LTD.
XX      (WALL/) WALLACH D.
XX

```

```

PI      Beletsky I, Bigda J, Mett I, Wallach D;
XX      WPI: 1995-148673/20.
DR      P-PSDB; AAR72504.
XX
PT      Tumour necrosis factor (TNF) receptor ligand - used to increase
XX      inhibitory effect of a soluble TNF receptor
XX      Disclosure; Figure 2; 18pp; English.
XX
CC      A ligand to a member of the tumour necrosis factor (TNF)/nerve
CC      growth factor (NGF) receptor family which binds either to the region
CC      of the 4th-Cys rich domain of the receptor, or to the region between
CC      it and the cell membrane may be used in the production of a
CC      pharmaceutical composition for increasing the inhibitory effect of a
CC      soluble receptor of the TNF/NGF receptor family. This sequence
CC      encodes the p75 TNF receptor. N in the sequence represents an
CC      unidentified nucleotide (poor reproduction in specification).
CC      (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ      Sequence 2224 BP; 432 A; 697 C; 688 G; 400 T; 7 other;
XX
Query Match      100.0%; Score 51; DB 16; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY      1 AGCAGAGGCGAGGAGTTGGGGAAGCCCTGCTGTCATGATGTCCTCT 51
DB      1650 AGCAGAGGCGAGGAGTTGGGGAAGCCCTGCTGTCATGATGTCCTCT 1700
XX
RESULT 2
AAA49207
ID      AAA49207 standard; DNA; 2613 BP.
XX
AC      AAA49207;
XX
XX      22-NOV-2000 (first entry)
XX
DB      Human tumour necrosis factor alpha receptor 2 gene exon 10.
XX
KW      Human; tumour necrosis factor alpha receptor 2; TNFR2; polymorphism;
XX      osteoporosis; ds.
XX
OS      Homo sapiens.
XX
FH      Key      Location/Qualifiers
FT      CDS      1..2613
FT      FT      /*tag= a
FT      FT      /product= "TNFR2"
FT      FT      /partial
FT      FT      replace (593..A), (598..G), (620..T)
FT      FT      /*tag= b
FT      FT      /label= allele_1
FT      FT      replace (593..A), (598..T), (620..T)
FT      FT      /*tag= c
FT      FT      /label= allele_2
FT      FT      replace (593..G), (598..T), (620..C)
FT      FT      /*tag= d
FT      FT      /label= allele_3
FT      FT      replace (593..G), (598..T), (620..T)
FT      FT      /*tag= e
FT      FT      /label= allele_4
FT      FT      replace (593..A), (598..T), (620..C)
FT      FT      /*tag= f
FT      FT      /label= allele_5
XX
XX      WO200032826-A1.
XX      08-JUN-2000.
XX      30-NOV-1999; 99WO-US28403.
XX

```

PR 30-NOV-1998; 98US-0110268.
XX (UYDR-) UNITV DREXEL.
XX
XX Spotila LD;
XX
XX WPI; 2000-412362/35.
XX
XX Identifying individuals at risk of developing osteoporosis comprises
XX assessing the genotype of a tumor necrosis factor-alpha 2 receptor gene
XX in a DNA sample from an individual -
XX
XX Claim 2; Page 17-18; 21pp; English.
XX
XX The present sequence comprises exon 10 of the human tumour necrosis
XX factor alpha receptor 2 (TNFR2) gene. The sequence contains three
XX polymorphic sites. By determining the genotype of an individual it is
XX possible to identify those at risk of osteoporosis, which is
XX characterised by low bone density and fragile bones, later in life. Those
XX at greatest risk are those who possess allele 1, which is the rarest
XX allele. This is particularly useful as many cases of osteoporosis go
XX undetected at present.

XX Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;

Query Match 100.0%; Score 51; DB 21; Length 2613;
Best Local Similarity 100.0%; Pred. No. 3.1e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCATGTGTGTCCTCT 51
DB 580 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCATGTGTGTCCTCT 630

RESULT 3

ABZ35564
ID ABZ35564 standard; cDNA; 2613 BP.

XX ABZ35564;

DT 05-FEB-2003 (first entry)

XX Human gene expression profile polynucleotide SEQ ID NO 675.

XX Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
XX bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
XX tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
XX gene expression; gene; ss.

XX Homo sapiens.

XX WO200274979-A2.

XX 26-SEP-2002.

XX 20-MAR-2002; 2002WO-US08456.

XX 20-MAR-2001; 2001US-276947P.

XX (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

XX Wan J, Wang Y;

XX WPI; 2002-740862/80.

XX New gene expression profile generated from primary, endothelial,
XX epithelial, and muscle cell types, useful for identifying disease
XX pathologies involving alterations of gene expression, e.g. cancer -
XX
XX Example 3; Page 798-799; 850pp; English.

XX The invention relates to a gene expression profile comprising one or more
XX genes (ABZ34889-ABZ35692) and generated from a cell type. The cell type

CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumour type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.

XX Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 2613;
Best Local Similarity 100.0%; Pred. No. 3.1e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCATGTGTGTCCTCT 51
DB 580 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCATGTGTGTCCTCT 630

RESULT 4

ABZ34910
ID ABZ34910 standard; cDNA; 3683 BP.

XX ABZ34910;

DT 05-FEB-2003 (first entry)

XX Human gene expression profile polynucleotide SEQ ID NO 22.

XX Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
XX bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
XX tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
XX gene expression; gene; ss.

XX Homo sapiens.

XX WO200274979-A2.

XX 26-SEP-2002.

XX 20-MAR-2002; 2002WO-US08456.

XX 20-MAR-2001; 2001US-276947P.

XX (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

XX Wan J, Wang Y;

XX WPI; 2002-740862/80.

XX New gene expression profile generated from primary, endothelial,
XX epithelial, and muscle cell types, useful for identifying disease
XX pathologies involving alterations of gene expression, e.g. cancer -
XX
XX Claim 1; Page 235-236; 850pp; English.

XX The invention relates to a gene expression profile comprising one or more
XX genes (ABZ34889-ABZ35692) and generated from a cell type. The cell type

CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumor type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 3.3e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCTT 51
Db 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCTT 1700

RESULT 5
ABQ74753 standard; cDNA; 3683 BP.

XX ABQ74753;

XX 24-OCT-2002 (first entry)

XX Human tumour necrosis factor receptor 2 encoding cDNA SEQ ID NO.3.

XX Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;

KM gene; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /tag= a

FT /product= "tumour necrosis factor receptor 2"

XX US6410324-B1.

XX 25-JUN-2002.

XX 27-APR-2001; 2001US-0844634.

XX 27-APR-2001; 2001US-0844634.

XX (ISIS-) ISIS PHARM INC.

XX Benect CF, Watt AT;

XX WPI; 2002-606814/65.

XX P-PDB; ABP52451.

XX New compounds antisense to nucleic acid encoding human or mouse tumor
XX necrosis factor receptor 2 are useful to treat disease associated with
XX mouse tumor necrosis factor receptor 2 expression -

PS Claim 1; Column 53-58; 69pp; English.

XX The present invention describes compounds of 8-30 nucleobases antisense
XX to a nucleic acid encoding human or mouse tumor necrosis factor
XX receptor 2 (TNFR2). Also described is a method for inhibiting expression
XX of human or mouse TNFR2 comprising contacting cells or tissues in vitro
XX with one of the claimed compounds. The antisense compounds are used to
XX treat a disease or condition associated with expression of TNFR2. The
XX present sequence encodes human TNFR2, which is used in an example from
XX the present invention.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 3.3e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCTT 51
Db 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTCTCTT 1700

RESULT 6
ABK83997 standard; cDNA; 3683 BP.

XX ABK83997;

XX 14-AUG-2002 (first entry)

XX Human cDNA differentially expressed in granulocytic cells #568.

KM Human; ss; granulocytic cell; DNA chip; bacterial infection;
KM viral infection; parasitic infection; protozoal infection;
KM fungal infection; sterile inflammatory disease; psoriasis;
KM rheumatoid arthritis; glomerulonephritis; asthma; chromobiosis;
KM cardiac reperfusion injury; renal reperfusion injury; ARDS;
KM adult respiratory distress syndrome; inflammatory bowel disease;
KM Crohn's disease; ulcerative colitis; periodontal disease;
KM granulocyte activation; chronic inflammation; allergy.

XX Homo sapiens.

XX WO200228999-A2.

XX 11-APR-2002.

XX 03-OCT-2001; 2001WO-US30821.

XX 03-OCT-2000; 2000US-237189P.

XX (GENE-) GENE LOGIC INC.

XX Beazer-Barclay Y, Weisman SM, Yamaga S, Vockley J;

XX WPI; 2002-435328/46.

XX Detecting granulocyte activation by detecting differential expression
XX of genes associated with granulocyte activation, which serves as
XX diagnostic markers that is useful for monitoring disease states and
XX drug toxicity -

XX Claim 1, SEQ ID No 568; 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation
XX (GCA), by detecting the level of expression of gene(s) (Gs) identified by
XX DNA chip analysis as given in the specification, and comparing
XX the expression level to an expression level in an unactivated
XX GC, where differential expression of Gs is indicative of GCA.
XX Also included are modulating (M2) Gs by contacting GC with an agent
XX that alters the expression of at least one gene in Gs; (2) screening (M3)
XX for an agent capable of modulating GCA or an inflammation (especially
XX chronic) in a tissue, an allergic response in a subject, exposure of a

CC subject to a pathogen or sterile inflammatory disease using the
 CC gene expression profile; (3) detecting (M4) an inflammation (especially
 CC chronic) in a tissue, an allergic response in a subject, exposure of a
 CC subject to a pathogen or sterile inflammatory disease, by detecting the
 CC level of expression in a sample of the tissue of gene(s) from Gs, where
 CC the level of expression of the gene is indicative of inflammation;
 CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
 CC an allergic response in a subject, exposure of a subject to a pathogen
 CC or sterile inflammatory disease, by contacting a tissue having
 CC inflammation with an agent that modulates the expression of gene(s)
 CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
 CC modulating GAI; M3 is useful for screening an agent capable of modulating
 CC GCA preferably in an inflammation in a tissue; M4 is useful for
 CC detecting an inflammation (especially chronic) in a tissue, an allergic
 CC response in a subject, exposure of a subject to a pathogen or sterile
 CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
 CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
 CC reperfusion injury, ARDS, adult respiratory distress syndrome,
 CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
 CC periodontal disease; also bacterial infection, viral infection,
 CC parasitic infection, protozoal infection, fungal infection and M5 is
 CC useful for treating one of the above conditions. The present
 CC sequence represents a gene differentially expressed in granulocytes.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

Best Local Similarity 100.0%; Pred. No. 3.3e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 51

Db 1650 AGCAGAGCAGCAGGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 1700

RESULT 7

ABL65877
 ID ABL65877 standard; DNA; 3683 BP.

XX ABL65877;

XX 15-MAY-2002 (first entry)

XX Lung cancer related gene sequence SEQ ID NO:4214.

XX Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;

XX stomach; lung; prostate; pancreas; carcinoma; antitumor; cancerous;

XX cytostatic; gene therapy; antineoplastic; Wilms tumour; adenocarcinoma;

XX gene; ds.

XX Homo sapiens.

XX WO200194629-A2.

XX 13-DEC-2001.

XX 30-MAY-2001; 2001WO-US10838.

XX 05-JUN-2000; 2000US-209473P.

XX 05-JUN-2000; 2000US-209531P.

XX 18-SEP-2000; 2000US-233133P.

XX 18-SEP-2000; 2000US-233137P.

XX 20-SEP-2000; 2000US-234034P.

XX 20-SEP-2000; 2000US-234052P.

XX 22-SEP-2000; 2000US-234509P.

XX 22-SEP-2000; 2000US-234567P.

XX 25-SEP-2000; 2000US-234923P.

XX 25-SEP-2000; 2000US-234924P.

PR 25-SEP-2000; 2000US-235077P.
 PR 25-SEP-2000; 2000US-235082P.
 PR 25-SEP-2000; 2000US-235134P.
 PR 25-SEP-2000; 2000US-235280P.
 PR 26-SEP-2000; 2000US-235637P.
 PR 26-SEP-2000; 2000US-235638P.
 PR 27-SEP-2000; 2000US-235711P.
 PR 27-SEP-2000; 2000US-235720P.
 PR 27-SEP-2000; 2000US-235840P.
 PR 27-SEP-2000; 2000US-235863P.
 PR 28-SEP-2000; 2000US-236028P.
 PR 28-SEP-2000; 2000US-236032P.
 PR 28-SEP-2000; 2000US-236033P.
 PR 28-SEP-2000; 2000US-236034P.
 PR 28-SEP-2000; 2000US-236109P.
 PR 28-SEP-2000; 2000US-236111P.
 PR 28-SEP-2000; 2000US-236842P.
 PR 29-SEP-2000; 2000US-236891P.
 PR 02-OCT-2000; 2000US-237172P.
 PR 02-OCT-2000; 2000US-237173P.
 PR 02-OCT-2000; 2000US-237278P.
 PR 02-OCT-2000; 2000US-237294P.
 PR 02-OCT-2000; 2000US-237295P.
 PR 02-OCT-2000; 2000US-237316P.
 PR 03-OCT-2000; 2000US-237425P.
 PR 03-OCT-2000; 2000US-237598P.
 PR 03-OCT-2000; 2000US-237604P.
 PR 03-OCT-2000; 2000US-237606P.
 PR 03-OCT-2000; 2000US-237608P.
 PR 01-NOV-2000; 2000US-244867P.
 PR 01-NOV-2000; 2000US-245084P.
 XX (AVALON PHARM.
 XX Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 XX Soppet DR, Weaver Z;
 XX WPI; 2002-188264/24.

XX WPI; 2002-188264/24.

PT Screening for anti-neoplastic agent involves exposing cells to a
 PT chemical agent to be tested for anti-neoplastic activity, and
 PT determining a change in expression of a gene of a signature gene set

XX Claim 1: SEQ ID 4214; 44pp; English.

XX The present invention describes a method (M1) for screening for an
 CC anti-neoplastic agent. The method involves exposing cells to a chemical
 CC agent to be tested for anti-neoplastic activity, determining a change in
 CC expression of at least one gene (I) of a signature gene set, where (I)
 CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
 CC to ABL70110), or is at least 95% identical to (S), where a change in
 CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
 CC activity and can be used in gene therapy. M1 can be used for screening
 CC an anti-neoplastic agent, and can be used for producing a product which
 CC is the data collected with respect to the anti-neoplastic agent as a
 CC result of M1, and the data is sufficient to convey the chemical
 CC structure and/or properties of the agent. M1 can be used in the
 CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
 CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
 CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
 CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
 CC carcinoma, papillary carcinoma and Wilms tumour.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

Best Local Similarity 100.0%; Pred. No. 3.3e-09;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 51

Db 1650 AGCAGAGCAGCAGGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 1700

XX	RESULT 8
AC	ABK33465
XX	ID ABK33465 standard; DNA; 3683 BP.
XX	ABK33465;
D7	23-APR-2002 (first entry)
XX	
DE	Human TNF receptor II gene.
XX	
KW	Human; anti-tumour necrosis factor receptor II; TNF receptor II; chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder; inflammatory disorder; chronic disease; receptor; gene; ds.
OS	Homo sapiens.
XX	
FH	Key
FT	CDS
FT	Location/Qualifiers
FT	/tag= a
FT	/product= "TNF receptor II"
FT	sig_peptide
FT	90..155
FT	/tag= b
FT	mat_peptide
FT	156..1472
XX	/tag= c
PX	
PN	EPI17244-AI.
XX	
PD	16-JAN-2002.
PF	
PE	10-JUL-2000; 2000EP-0114786.
XX	
PR	10-JUL-2000; 2000EP-0114786.
XX	
PA	(CONA-) CONARIS RES INST GMBH.
P1	
P1	Schreiber S, Hampe J, Mascheretti S;
DR	WPI; 2002-156651/21.
DR	P-PSDB; AAU75172.
PT	
PT	Detecting non-responders to anti-human necrosis factor therapy, comprises testing an individual for homozygosity for a single nucleotide polymorphism in the gene coding for the tumour necrosis factor receptor II -
PS	
PS	Disclosure; Page 23-27; 45pp; English.
XX	
CC	The present invention relates to a method for detecting non-responders to anti-tumour necrosis factor (TNF) therapy. The method involves testing an individual for homozygosity for at least one single nucleotide polymorphism (SNP) in the gene coding for TNF receptor II, which is located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168 A/G) and one in exon 6 (position 587 T/G) which result in lys65lys and Met166arg respectively, are also described. The method of the invention is useful for detecting non-responders to anti-TNF therapy such as infliximab therapy, or therapy of Crohn's disease. The genes containing the 2 novel polymorphisms are useful for diagnostic purposes in inflammatory, malignant or other chronic diseases. The present sequence encodes for human TNF receptor II.
SO	
SO	Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
Query Match	100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity	100.0%; Pred. No. 3.3e-09;
Matches	51; Conservative 0; Mismatches 0; Indels 0; Gaps 0
Qy	1 AGCAGGCGCAGCGAGTGGGGAAGCCTTGCTGCATGATGTGTCCTCT 51
Db	1650 AGCAAGCGCAGCGAGTGGGGAAGCCTTGCTGCATGATGTGTCCTCT 1700

ABK33466
ID ABK33466 standard; DNA; 3683 BP.
XX
XX AC ABK33466;
XX
DT 23-APR-2002 (first entry)
XX
DE Human TNF receptor II gene with SNP in exon 2.
XX
KW Human, anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
KW chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
KW inflammatory disorder; chronic disease; receptor; gene;
KW single nucleotide polymorphism; ds.
XX
OS Homo sapiens.

Key Location/Qualifiers
FH CDS 90..1475
FT /tag= a
FT /product= "TNF receptor II variant #1"
FT sig_peptide 90..155
FT /tag= b
FT mat_peptide 156..1472
FT /tag= c
FT variation replace (257, A)
FT /tag= d
FT /standard_name= "Single nucleotide polymorphism"

EN EP1172444-A1.
PD 16-JAN-2002.
PF 10-JUL-2000; 2000EP-0114786.
PR 10-JUL-2000; 2000EP-0114786.
PX
PA (CONA-) CONARIS RES INST GMBH.
PI Schreiber S, Hampe J, Maccheretti S;
PI WPI; 2002-156651/21.
DR P-PsDB; AAU75173.

PT Detecting non-responders to anti-human necrosis factor therapy,
PT comprises testing an individual for homozygosity for a single
PT nucleotide polymorphism in the gene coding for the tumour necrosis
PT factor receptor II -
PS Claim 15; Page 29-33; 45pp; English.

The present invention relates to a method for detecting non-responders
to anti-tumour necrosis factor (TNF) therapy. The method involves testing
an individual for homozygosity for at least one single nucleotide
polymorphism (SNP) in the gene coding for TNF receptor II, which is
located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
A/G) and one in exon 6 (position 587 T/G) which result in lys56Iys and
Met196Arg respectively, are also described. The method of the invention
is useful for detecting non-responders to anti-TNF therapy such as
infliximab therapy, or therapy of Crohn's disease. The genes containing
the 2 novel polymorphisms are useful for diagnostic purposes in
inflammatory, malignant or other chronic diseases. The present sequence
represents the human TNF receptor II gene containing the SNP in exon 2.

Sequence 3683 BP; 780 A; 1098 C; 1087 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 3.3e-09;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0

1 AGCAGAGCGACGAGTTGGGGAAAGCCCTGTGCCTCATGTGTCCTT 51
|||||
1650 AGCAGAGCGACGAGTTGGGGAAAGCCCTGTGCCTCATGTGTCCTT 1700

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```
/ APPLICATION NUMBER: IL 90339
/ FILING DATE: 18-MAY-1989
/ ATTORNEY/AGENT INFORMATION:
/ NAME: BROWDY, Roger L.
/ REGISTRATION NUMBER: 25,618
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-628-5197
/ TELEFAX: 202-737-3528
/ INFORMATION FOR SEQ ID NO: 1:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2224 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 90..1472
/ US-09-800-909-1

Query Match      100.0%; Score 51; DB 9; Length 2224;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
DB      1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 2
US-09-800-908-2
/ Sequence 2, Application US/09800908
/ Patent No. US20020111462A1
/ GENERAL INFORMATION:
/ APPLICANT: WALLACH, David
/ BIGDA, Jacek
/ BELETSKY, Igor
/ METT, Igor
/ TITLE OF INVENTION: TNF LIGANDS
/ NUMBER OF SEQUENCES: 17
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: BROWDY AND NEIMARK
/ STREET: 419 Seventh Street, N.W.
/ CITY: Washington
/ STATE: D.C.
/ COUNTRY: USA
/ ZIP: 20004
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/800,908
/ FILING DATE: 08-Mar-2001
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/477,347
/ FILING DATE: <Unknown>
/ APPLICATION NUMBER: IL 106271
/ FILING DATE: 08-JUL-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Townsend, G. Kevin
/ REGISTRATION NUMBER: 34,033
/ REFERENCE/DOCKET NUMBER: WALLACH=10
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-628-5197
/ TELEFAX: 202-737-3528
/ TELEX: 248633
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2224 base pairs
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/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 90..1472
/ SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2

Query Match      100.0%; Score 51; DB 10; Length 2224;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
DB      1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 1700

RESULT 3
US-10-101-510-675
/ Sequence 675, Application US/10101510
/ Publication No. US20030148295A1
/ GENERAL INFORMATION:
/ APPLICANT: WAN, JACKSON
/ APPLICANT: WANG, YIXIN
/ TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
/ FILE REFERENCE: 15117.0012
/ CURRENT APPLICATION NUMBER: US/10/101,510
/ PRIOR FILING DATE: 2002-03-20
/ PRIOR APPLICATION NUMBER: 60/276,947
/ PRIOR FILING DATE: 2001-03-20
/ NUMBER OF SEQ ID NOS: 805
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO: 675
/ LENGTH: 2613
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-101-510-675

Query Match      100.0%; Score 51; DB 13; Length 2613;
Best Local Similarity 100.0%; Pred. No. 8.4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 51
DB      580 AGCAGAGCAGCAGAGTTGGGAAAGCCTGCTGCGCATGATGTCCTCT 630

RESULT 4
US-09-954-456-1187
/ Sequence 1187, Application US/09954456
/ Patent No. US20020115057A1
/ GENERAL INFORMATION:
/ APPLICANT: Young, Paul
/ TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
/ TITLE OF INVENTION: Sets
/ FILE REFERENCE: 689290-76
/ CURRENT APPLICATION NUMBER: US/09/954,456
/ CURRENT FILING DATE: 2001-09-18
/ PRIOR APPLICATION NUMBER: US/60/233,617
/ PRIOR FILING DATE: 2000-09-18
/ PRIOR APPLICATION NUMBER: US/60/234,052
/ PRIOR FILING DATE: 2000-09-20
/ PRIOR APPLICATION NUMBER: US/60/234,923
/ PRIOR FILING DATE: 2000-09-25
/ PRIOR APPLICATION NUMBER: US/60/235,134
/ PRIOR FILING DATE: 2000-09-25
/ PRIOR APPLICATION NUMBER: US/60/235,637
/ PRIOR FILING DATE: 2000-09-26
/ PRIOR APPLICATION NUMBER: US/60/235,638
/ PRIOR FILING DATE: 2000-09-26
/ PRIOR APPLICATION NUMBER: US/60/235,711
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; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1187
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1187

Query Match
Best Local Similarity 100.0%; Score 51; DB 10; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 5
US-09-902-176A-49
; Sequence 49, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (156)
US-09-902-176A-49

Query Match
Best Local Similarity 100.0%; Score 51; DB 11; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 6
US-09-902-176A-51
; Sequence 51, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting

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; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (156)
US-09-902-176A-51

Query Match
Best Local Similarity 100.0%; Score 51; DB 11; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 7
US-09-902-176A-53
; Sequence 53, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 53
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: (156)
US-09-902-176A-53

Query Match
Best Local Similarity 100.0%; Score 51; DB 11; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCCATGTTGTCCCTCT 1700

RESULT 8
US-10-101-510-22
; Sequence 22, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:

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/ APPLICANT: WAN, JACKSON
/ APPLICANT: WANG, YIXIN
/ TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
/ FILE REFERENCE: 15117.0012
/ CURRENT APPLICATION NUMBER: US/10/101,510
/ PRIOR FILING DATE: 2002-03-20
/ PRIOR APPLICATION NUMBER: 60/276,947
/ PRIOR FILING DATE: 2001-03-20
/ NUMBER OF SEQ ID NOS: 805
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 22
/ LENGTH: 3683
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-101-510-22

Query Match          100.0%; Score 51; DB 13; Length 3683;
Best Local Similarity 100.0%; Pred. No. 8,4e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACAGAGGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCCTCT 51
Db 1650 ACAGAGGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCCTCT 1700

RESULT 9
US-10-207-655-191
/ Sequence 191, Application US/10207655
/ Publication No. US20030118592A1
/ GENERAL INFORMATION:
/ APPLICANT: Ledbetter, Jeffrey A.
/ APPLICANT: Hayden-Ledbetter, Martha S.
/ TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
/ FILE REFERENCE: 390069.401C1
/ CURRENT APPLICATION NUMBER: US/10/207,655
/ NUMBER OF SEQ ID NOS: 426
/ SOFTWARE: Patentin version 3.0
/ SEQ ID NO 191
/ LENGTH: 3492
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-207-655-191

Query Match          93.7%; Score 47.8; DB 15; Length 3492;
Best Local Similarity 96.1%; Pred. No. 1.4e-08;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AGCAGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCCTCT 51
Db 1453 AGCAGAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCCTCT 1503

RESULT 10
US-09-864-761-20482/c
/ Sequence 20482, Application US/09864761
/ Patent No. US20020048763A1
/ GENERAL INFORMATION:
/ APPLICANT: Penn, Sharron G.
/ APPLICANT: Rank, David R.
/ APPLICANT: Hanzel, David K.
/ APPLICANT: Chen, Wensheng
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
/ TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
/ FILE REFERENCE: Aeomica-X-1
/ CURRENT APPLICATION NUMBER: US/09/864,761
/ PRIOR FILING DATE: 2001-05-23
/ PRIOR APPLICATION NUMBER: US 60/180,312
/ PRIOR FILING DATE: 2000-02-04
/ PRIOR APPLICATION NUMBER: US 60/207,456
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: US 09/632,366
/ PRIOR FILING DATE: 2000-08-03
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/ PRIOR APPLICATION NUMBER: GB 24263.6
/ PRIOR FILING DATE: 2000-10-04
/ PRIOR APPLICATION NUMBER: US 60/236,359
/ PRIOR FILING DATE: 2000-09-27
/ PRIOR APPLICATION NUMBER: PCT/US01/00666
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00667
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00664
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00669
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00665
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00668
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00663
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00662
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00661
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: PCT/US01/00670
/ PRIOR FILING DATE: 2001-01-30
/ PRIOR APPLICATION NUMBER: US 60/234,687
/ PRIOR FILING DATE: 2000-09-21
/ PRIOR APPLICATION NUMBER: US 09/608,408
/ PRIOR FILING DATE: 2000-06-30
/ PRIOR APPLICATION NUMBER: US 09/774,203
/ PRIOR FILING DATE: 2001-01-29
/ NUMBER OF SEQ ID NOS: 49117
/ SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
/ SEQ ID NO 20482
/ LENGTH: 84
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: MAP TO AP000010.2
/ OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 1.7
/ OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3
/ OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
/ OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
/ OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.4
/ OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
/ OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
/ OTHER INFORMATION: NT HIT: Y09912.1, EVALU5.80e-01
/ OTHER INFORMATION: EST_HUMAN HIT: BE047094.1, EVALU5.3.00e-06
US-09-864-761-20482

Query Match          50.2%; Score 25.6; DB 9; Length 84;
Best Local Similarity 77.5%; Pred. No. 3.3;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 5 GAGCAGGAGGAGTTGGGAAAGCCTCTGCTGCCATGATGTCG 44
Db 43 GAGCAACGTGAAGGGGAAAGCCTGCGAGCGTGTCG 4

RESULT 11
US-09-864-761-3716/c
/ Sequence 3716, Application US/09864761
/ Patent No. US20020048763A1
/ GENERAL INFORMATION:
/ APPLICANT: Penn, Sharron G.
/ APPLICANT: Rank, David R.
/ APPLICANT: Hanzel, David K.
/ APPLICANT: Chen, Wensheng
/ TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
/ TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
/ FILE REFERENCE: Aeomica-X-1
```

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CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
SEQ ID NO 3716
LENGTH: 416
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AP000010.2
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.7
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.5
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.1
US-09-864-761-3716

Query Match      50.2%; Score 25.6; DB 9; Length 416;
Best Local Similarity 77.5%; Pred. No. 3.3;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Db      5 GAGGCGAGGAGTGGGAGAAAGCTGTGCGCATGTGGG 44
      337 GAGCAAACTGAAGGGGAAAGCCACTGCACCGTGGTGG 298

RESULT 12
US-09-864-761-1826
Sequence 1826 Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
```

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APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wenheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aecmca-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
SEQ ID NO 1826
LENGTH: 464
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC009297.2
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.4
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 5
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.2
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.8
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 9.8
US-09-864-761-1826

Query Match      50.2%; Score 25.6; DB 9; Length 464;
Best Local Similarity 70.8%; Pred. No. 3.3;
Matches 34; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Db      3 CAGAGCGAGGAGTGGGAGAAAGCTGTGCGCATGTGGTCC 50
      269 CATGCCAGTGAAGTGGGAGATGAGCTGTGCTTGGAGTGGCC 316
```

```
RESULT 13
US-10-027-632-86806/c
; Sequence 86806, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86806
; LENGTH: 1082
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1082)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-86806

Query Match          50.2%; Score 25.6; DB 13; Length 1082;
Best Local Similarity 77.5%; Pred. No. 3.4;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      5 GAGGCGAGGAGTTGGGGAAGCCTTGCTGCCATGCTGTG 44
DB      1035 GAGCAACGTGAAGGGGAAAGCCACTGCAGCCGTGTGTG 996

RESULT 14
US-10-027-632-86806/c
; Sequence 86806, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86806
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; LENGTH: 1082
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1082)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-86806

Query Match          50.2%; Score 25.6; DB 14; Length 1082;
Best Local Similarity 77.5%; Pred. No. 3.4;
Matches 31; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      5 GAGGCGAGGAGTTGGGGAAGCCTTGCTGCCATGCTGTG 44
DB      1035 GAGCAACGTGAAGGGGAAAGCCACTGCAGCCGTGTGTG 996

RESULT 15
US-09-864-761-23584
; Sequence 23584, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Fenn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 23584
; LENGTH: 426
; TYPE: DNA
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; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL139819.2
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.7
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 4.4
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.9
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 6.1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.9
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.5
; OTHER INFORMATION: NT HIT: g11434431, EVALUE 0.00e+00
; OTHER INFORMATION: EST HUMAN HIT: AA398511.1, EVALUE 0.00e+00
; OTHER INFORMATION: SWISSPROT HIT: P35232, EVALUE 5.00e-44
; US-09-864-761-23584
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Query Match          48.6%; Score 24.8; DB 9; Length 426;
Best Local Similarity 72.7%; Pred. No. 6.7; Mismatches 0; Gaps 0;
Matches 32; Conservative 0; Indels 12; Gaps 0;
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        |||||
Db      188 GCCAGTGAGTTGGCGATCAGCTCTGCTGCCCTTGAATGCCCTC 231
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Search completed: December 16, 2003, 19:42:38
Job time : 155 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 18:10:00 ; Search time 62 Seconds
(without alignments)
363.073 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagctggg.....ctgcacatggtgtccctct 51

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents, NA: *
1: /cgn2_6/prodata/1/ina/5A.COMB.seq: *
2: /cgn2_6/prodata/1/ina/5B.COMB.seq: *
3: /cgn2_6/prodata/1/ina/6A.COMB.seq: *
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5: /cgn2_6/prodata/1/ina/PCTUS.COMB.seq: *
6: /cgn2_6/prodata/1/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	2224	3 US-08-477-347-2	Sequence 2, Appli
2	51	100.0	2224	3 US-08-476-862-1	Sequence 1, Appli
3	51	100.0	2224	3 US-09-800-909-1	Sequence 1, Appli
4	51	100.0	3683	4 US-09-844-634-3	Sequence 17, Appli
5	47.8	93.7	15602	4 US-09-844-634-17	Sequence 17, Appli
6	23.2	45.5	1020	1 US-08-114-461-1	Sequence 1, Appli
7	23.2	45.5	1020	1 US-08-192-156-1	Sequence 1, Appli
8	23.2	45.5	1020	1 US-08-370-789-1	Sequence 1, Appli
9	23.2	45.5	1328	4 US-09-297-911-22	Sequence 22, Appli
10	22.8	44.7	1128	4 US-09-252-991A-3879	Sequence 3879, Ap
11	22.8	44.7	1896	4 US-09-252-991A-3975	Sequence 3975, Ap
12	22.8	44.7	2562	4 US-09-252-991A-4045	Sequence 4045, Ap
13	22.4	43.9	1230	4 US-09-370-950C-1	Sequence 17, Appli
14	22.4	43.9	1319	2 US-08-484-993B-17	Sequence 17, Appli
15	22.4	43.9	1319	2 US-08-484-158B-17	Sequence 17, Appli
16	22.4	43.9	1319	2 US-08-484-596A-17	Sequence 17, Appli
17	22.4	43.9	1319	2 US-08-480-150A-17	Sequence 17, Appli
18	22.4	43.9	1319	3 US-08-458-731-17	Sequence 17, Appli
19	22.4	43.9	1319	3 US-08-149-223A-17	Sequence 17, Appli
20	22.4	43.9	1230025	4 US-09-198-452A-1	Sequence 1, Appli
21	22.2	43.5	1074	1 US-08-045-269C-3	Sequence 3, Appli
22	22.2	43.5	1074	3 US-08-371-680-3	Sequence 3, Appli
23	22.2	43.5	1074	5 PCT-US94-01198-3	Sequence 3, Appli
24	22.2	43.5	1554	1 US-08-045-269C-1	Sequence 1, Appli
25	22.2	43.5	1554	3 US-08-371-680-1	Sequence 1, Appli
26	22.2	43.5	1554	5 PCT-US94-01198-1	Sequence 1, Appli
27	22.2	43.5	536165	4 US-09-214-808-1	Sequence 1, Appli

28	22	43.1	1530	4 US-09-252-991A-6611	Sequence 6611, Ap
29	22	43.1	38494	4 US-08-311-731A-24	Sequence 24, Appli
30	22	43.1	38675	4 US-08-311-731A-135	Sequence 135, App
31	22	43.1	87563	4 US-09-453-702B-57	Sequence 57, Appli
32	21.8	42.7	1011	2 US-09-013-634-3	Sequence 3, Appli
33	21.8	42.7	2581	2 US-09-013-634-1	Sequence 1, Appli
34	21.8	42.7	2908	4 US-09-930-181-1	Sequence 1, Appli
35	21.8	42.7	26664	4 US-09-564-805-28	Sequence 28, Appli
36	21.6	42.4	812	1 US-07-612-674-3	Sequence 3, Appli
37	21.6	42.4	1650	4 US-09-252-991A-3625	Sequence 3625, Ap
38	21.6	42.4	1696	1 US-07-612-674-1	Sequence 1, Appli
39	21.6	42.4	2766	4 US-09-252-991A-3756	Sequence 3756, Ap
40	21.6	42.4	2874	4 US-09-252-991A-3837	Sequence 3837, Ap
41	21.4	42.0	2053	4 US-09-227-357-45	Sequence 45, Appli
42	21.4	42.0	2136	4 US-09-587-184-1	Sequence 1, Appli
43	21.2	41.6	544	2 US-08-890-980-17	Sequence 17, Appli
44	21.2	41.6	544	3 US-08-890-979-17	Sequence 17, Appli
45	21.2	41.6	544	3 US-09-032-894-17	Sequence 17, Appli

ALIGNMENTS

RESULT 1
US-08-477-347-2
Sequence 2, Application US/08477347
Patent No. 6232446
GENERAL INFORMATION:
APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
TITLE OF INVENTION: TNF LIGANDS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSER: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,347
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/115,685
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 106271
FILING DATE: 08-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, G. Kevin
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: WALLACH=10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS

LOCATION: 90.1472
US-08-477-347-2

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGTCGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGTCGCATGATGTGTCCTCT 1700

RESULT 2

US-08-476-862-1
Sequence 1, Application US/08476862
Patent No. 6262239
GENERAL INFORMATION:
APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
APPLICANT: ENGELMANN, Hartmut
TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,862
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 107267
FILING DATE: 12-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90.1472
US-08-476-862-1

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGTCGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGTCGCATGATGTGTCCTCT 1700

RESULT 3

US-09-800-909-1
Sequence 1, Application US/09809099
Patent No. 6555111
GENERAL INFORMATION:
APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
APPLICANT: ENGELMANN, Hartmut
TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/800,909
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/476,862
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90.1472
US-09-800-909-1

Query Match 100.0%; Score 51; DB 4; Length 2224;
Best Local Similarity 100.0%; Pred. No. 3.1e-10;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCTCTGTCGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCTCTGTCGCATGATGTGTCCTCT 1700

RESULT 4
US-09-844-634-3
Sequence 3, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION
FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 3
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)...(1475)
US-09-844-634-3

Query Match
Best Local Similarity 100.0%; Score 51; DB 4; Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 1700

RESULT 5
US-09-844-634-17
Sequence 17, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION
FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 17
LENGTH: 15602
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
US-09-844-634-17

Query Match
Best Local Similarity 96.1%; Score 47.8; DB 4; Length 15602;
Matches 49; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 51
DB 11183 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCT 11233

RESULT 6
US-08-114-461-1/C
Sequence 1, Application US/08114461
Patent No. 5401635
GENERAL INFORMATION:
APPLICANT: NAKAMURA, Y., SATO, T.
TITLE OF INVENTION: HUMAN PROHIBITIN AND DNA
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo

STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
COMPUTER: IBM/PC/XT/AT Compatible
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WORD PERFECT 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/114,461
FILING DATE: 31-AUG-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/009,255
FILING DATE: January 22, 1993
APPLICATION NUMBER: JP4-011156
FILING DATE: 24-01-1992
APPLICATION NUMBER: JP4-308654
FILING DATE: 18-11-1992
ATTORNEY/AGENT INFORMATION:
NAME: Terryence F. Chapman
REGISTRATION NUMBER: 32 549
REFERENCE/DOCKET NUMBER: Furuya Case 1282
TELEPHONE: (616) 381-1156
TELEFAX: (616) 381-5465
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1020 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: yes
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE:
CELL TYPE:
IMMEDIATE SOURCE:
LIBRARY: Human fetal brain cDNA library
CLONE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23 to 839
IDENTIFICATION METHOD: analogy with a known sequence or a consensus sequence
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 1020

Query Match
Best Local Similarity 45.5%; Score 23.2; DB 1; Length 1020;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 7 GGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCTC 50
DB 736 GGCAGCAGAGTTGGGAAAGCCTCTGCTGCATGATGTCCTCTC 693

RESULT 7
US-08-192-156-1/C
Sequence 1, Application US/08192156
Patent No. 5463026
GENERAL INFORMATION:
APPLICANT: NAKAMURA, Y., SATO, T.

TITLE OF INVENTION: HUMAN PROHIBITIN AND DNA
TITLE OF INVENTION: CODING FOR THE SAME
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo
STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
COMPUTER: IBM/PC/XT/AT Compatible
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WORD PERFECT 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/192,156
FILING DATE: 04-FEB-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/009,255
FILING DATE: January 22, 1993
APPLICATION NUMBER: JP4-011156
FILING DATE: 24-01-1992
APPLICATION NUMBER: JP4-308654
FILING DATE: 18-11-1992
ATTORNEY/AGENT INFORMATION:
NAME: Terryence F. Chapman
REGISTRATION NUMBER: 32 549
REFERENCE/DOCKET NUMBER: Futuya Case 1282
TELECOMMUNICATION INFORMATION:
TELEPHONE: (616) 381-1156
TELEFAX: (616) 381-5465
INFORMATION FOR SEQ. ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1020 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: yes
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE:
CELL TYPE:
IMMEDIATE SOURCE:
LIBRARY: Human fetal brain cDNA library
CLONE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23 to 839
IDENTIFICATION METHOD: analogy with a known sequence or
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
RELEVANT RESIDUES IN SEQ ID NO. 1: FROM 1 TO 1020
US-08-192-156-1

Query Match 45.5%; Score 23.2; DB 1; Length 1020;
Best Local Similarity 70.5%; Pred. No. 7.9; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 7 GGCAGCAGTGGGAAAGCTCTGCTGCCATGATGTGCTC 50
DB 736 GCCAGTGAATTGCATCAGCTCAGCTGCTTGAGTGCCTC 693

RESULT 8
US-08-370-789-1/c
Sequence 1, Application US/08370789
Patent No. 559707
GENERAL INFORMATION:
APPLICANT: NAKAMURA, Y., SATO, T.
TITLE OF INVENTION: HUMAN PROHIBITIN AND DNA
TITLE OF INVENTION: CODING FOR THE SAME
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
STREET: 2026 Rambling Road
CITY: Kalamazoo
STATE: Michigan
COUNTRY: USA
ZIP: 49008-1699
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
COMPUTER: IBM/PC/XT/AT Compatible
OPERATING SYSTEM: MS-DOS 5.0
SOFTWARE: WORD PERFECT 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/370,789
FILING DATE: 10-JAN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/114,461
FILING DATE: 31-AUG-1993
APPLICATION NUMBER: US/08/009,255
FILING DATE: January 22, 1993
APPLICATION NUMBER: JP4-011156
FILING DATE: 24-01-1992
APPLICATION NUMBER: JP4-308654
FILING DATE: 18-11-1992
ATTORNEY/AGENT INFORMATION:
NAME: Terryence F. Chapman
REGISTRATION NUMBER: 32 549
REFERENCE/DOCKET NUMBER: Futuya Case 1282
TELECOMMUNICATION INFORMATION:
TELEPHONE: (616) 381-1156
TELEFAX: (616) 381-5465
INFORMATION FOR SEQ ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1020 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: yes
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homosapiens
INDIVIDUAL ISOLATE:
CELL TYPE:
IMMEDIATE SOURCE:
LIBRARY: Human fetal brain cDNA library
CLONE:
FEATURE:
NAME/KEY: Peptide
LOCATION: 23 to 839
IDENTIFICATION METHOD: analogy with a known sequence or a consensus sequence
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
RELEVANT RESIDUES IN SEQ ID NO. 1: FROM 1 TO 1020

US-08-370-789-1

Query Match 45.5%; Score 23.2; DB 1; Length 1020;
Best Local Similarity 70.5%; Pred. No. 7.9;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 7 GGCACGAGTTGGGAAAGCCTCTGCTGCATGCTGTCCTC 50
DB 736 GCGAGTGGATTGGCATCAGCTCAGCTGCTTGAGTCCCTC 693

RESULT 9

US-09-297-911-22/C
Sequence 22, Application US/09297911
Patent No. 6355427

GENERAL INFORMATION:

APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: DIAGNOSTIC ASSAY FOR BREAST CANCER
TITLE OF INVENTION: SUSCEPTIBILITY
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:

ADDRESSER: SIDLEY & AUSTIN
STREET: 717 N. Harwood, Suite 3400
CITY: Dallas
STATE: Texas
COUNTRY: United States of America
ZIP: 75201

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/297,911
FILING DATE:

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hansen, Eugenia S.
REGISTRATION NUMBER: 31,966
REFERENCE/DOCKET NUMBER: 11146/08308
TELECOMMUNICATION INFORMATION:
TELEPHONE: (214) 981-3300
TELEFAX: (214) 981-3400
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 1328 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: 5'clip
LOCATION: 1..477
US-09-297-911-22

Query Match 45.5%; Score 23.2; DB 4; Length 1328;
Best Local Similarity 70.5%; Pred. No. 8.3;
Matches 31; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 7 GGCACGAGTTGGGAAAGCCTCTGCTGCATGCTGTCCTC 50
DB 261 GCGAGTGGATTGGCATCAGCTCAGCTGCTTGAGTCCCTC 218

RESULT 10
US-09-252-991A-3879
Sequence 3879, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 3879
LENGTH: 1128
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-3879

Query Match 44.7%; Score 22.8; DB 4; Length 1128;
Best Local Similarity 71.4%; Pred. No. 11;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 GCGAGGAGGAGTTGGGAAAGCCTCTGCTGCATGCTCT 43
DB 983 GGAATGGCGGTGATTGCGGAATGCCCTCATGCGACGCTT 1024

RESULT 11
US-09-252-991A-3975/C
Sequence 3975, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 3975
LENGTH: 1896
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-3975

Query Match 44.7%; Score 22.8; DB 4; Length 1896;
Best Local Similarity 71.4%; Pred. No. 13;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 GCGAGGAGGAGTTGGGAAAGCCTCTGCTGCATGCTCT 43
DB 1304 GGAATGGCGGTGATTGCGGAATGCCCTCATGCGACGCTT 1263

RESULT 12
US-09-252-991A-4045/C
Sequence 4045, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 4045
LENGTH: 2562
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-4045

Query Match 44.7%; Score 22.8; DB 4; Length 2562;
Best Local Similarity 71.4%; Pred. No. 13;
Matches 30; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 GGAGAGCAGCCAGTGGGAAAGCTCGCTCCATGTGTGT 43
DB 90 GGATAGCGCGTATTTGGGAAAGCCGCTCATGCCAGGCTCT 49

RESULT 13
US-09-370-950C-1/c
Sequence 1, Application US/09370950C
Patent No. 6500653
GENERAL INFORMATION:
APPLICANT: ABO, ARIE
APPLICANT: ARONHEIM, AMI
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES WHICH RESEMBLE RHO AND WHICH
FILE REFERENCE: ONYX1042-US
CURRENT APPLICATION NUMBER: US/09/370,950C
CURRENT FILING DATE: 1999-08-09
PRIOR APPLICATION NUMBER: US 60/095,725
PRIOR FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1230
TYPE: DNA
ORGANISM: RAT Cnp
FEATURE:
NAME/KEY: CDS
LOCATION: (103)..(807)
OTHER INFORMATION:
US-09-370-950C-1

Query Match 43.9%; Score 22.4; DB 4; Length 1230;
Best Local Similarity 66.7%; Pred. No. 16;
Matches 32; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1 AGCAGGAGCAGGAGTTGGGAAAGCCTCGCTCCATGTGTGTCTCC 48
DB 400 AGCAGGAGGAGCAGGAGCCTCGCTCCATGTGTGTCTCC 353

RESULT 14
US-08-484-993B-17/c
Sequence 17, Application US/08484993B
Patent No. 5837497
GENERAL INFORMATION:
APPLICANT: Harris Ph.D., Jeffrey D.
APPLICANT: Hsu, Kuang T.
APPLICANT: Podolski, Joseph S.
TITLE OF INVENTION: Materials and Methods for Immunocontraception
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,993B
FILING DATE: 09-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/012,990
FILING DATE: 29-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,341
FILING DATE: 09-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 31745
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6653
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1319 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Felis domesticus
DEVELOPMENTAL STAGE: Juvenile
HAPOTYPE: Diploidy
TISSUE TYPE: Ovary
CELL TYPE: Oocyte
FEATURE:
NAME/KEY: CDS
LOCATION: 26..1297
US-08-484-993B-17

Query Match 43.9%; Score 22.4; DB 2; Length 1319;
Best Local Similarity 72.5%; Pred. No. 17;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 7 GGCAGCAGTGGGAAAGCCTCGCTCCATGTGTGTCTC 46
DB 1076 GCCTGCGATTTCGGGAGCAGCATCTGTGCCACGGTCTCTC 1037

RESULT 15
US-08-484-158B-17/c
Sequence 17, Application US/08484158B
Patent No. 5976545
GENERAL INFORMATION:
APPLICANT: Harris Ph.D., Jeffrey D.
APPLICANT: Hsu, Kuang T.
APPLICANT: Podolski, Joseph S.
TITLE OF INVENTION: Pharmaceutical Compositions for
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,158B
FILING DATE: 07-JUNE-95


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CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/149,223
FILING DATE: 09-NOV-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/012,990
FILING DATE: 29-JAN-93
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,341
FILING DATE: 09-NOV-92
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 32794
TELEPHONE: 312/474-6653
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1319 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Felis domesticus
DEVELOPMENTAL STAGE: Juvenile
HAPLOTYPE: Diploidy
TISSUE TYPE: Ovary
CELL TYPE: Oocyte
FEATURE:
NAME/KEY: CDS
LOCATION: 26..1297
US-08-484-1588-17

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Query Match          43.9%; Score 22.4; DB 2; Length 1319;
Best Local Similarity 72.5%; Pred. No. 17;
Matches 29; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

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Qy      7 GGCACGAGTTGGGAAAGCCTCTGCTGCATGTTGTTC 46
          |||||  |||||  |||||  |||||  |||||
Db      1076 GCCTGCGATTTCGGGAAGCCATCTGTGCGACGCTCTGC 1037

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Search completed: December 16, 2003, 19:05:22
Job time : 64 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:05:27 ; Search time 1223 Seconds

(without alignments)
1705.962 Million cell updates/sec

Title: US-09-856-937a-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagtcgtgg.....ctgcacatgctgttcctct 51

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 2888711 seqs, 2045481386 residues

Word size : 20

Total number of hits satisfying chosen parameters: 25

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: listing first 100 summaries

Database :

GenBank: *
1: gb_ba: *
2: gb_hcg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pat: *
7: gb_ph: *
8: gb_pl: *
9: gb_pr: *
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11: gb_srs: *
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25: em_pl: *
26: em_ro: *
27: em_srs: *
28: em_un: *
29: em_vl: *
30: em_hcg_hum: *
31: em_hcg_inv: *
32: em_hcg_other: *
33: em_hcg_mus: *
34: em_hcg_pln: *
35: em_hcg_rnd: *
36: em_hcg_mam: *
37: em_hcg_vrt: *
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39: em_hcgo_hum: *
40: em_hcgo_mus: *
41: em_hcgo_other: *

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	870	11 G15915	G15915 human STS C
2	51	100.0	2224	6 AR152033	AR152033 Sequence
3	51	100.0	2224	6 AR308134	AR308134 Sequence
4	51	100.0	2253	6 A78517	A78517 Sequence 1
5	51	100.0	2613	9 HSTNFR2510	U52165 Human tumor
6	51	100.0	3380	11 G26865	G26865 human STS S
7	51	100.0	3683	6 AR215688	AR215688 Sequence
8	51	100.0	3683	6 AX333705	AX333705 Sequence
9	51	100.0	3683	6 AX348016	AX348016 Sequence
10	51	100.0	3683	6 AX348018	AX348018 Sequence
11	51	100.0	3683	6 AX348020	AX348020 Sequence
12	51	100.0	3683	6 AX698020	AX698020 Sequence
13	51	100.0	3683	9 HUMNFR	M32315 Human tumor
14	32	62.7	2282	9 BC042167	BC042167 Homo sapi
15	32	62.7	2394	9 HUMNFR11	M55994 Human tumor
16	32	62.7	3692	9 BC052977	BC052977 Homo sapi
17	22	43.1	23	6 AX348013	AX348013 Sequence
18	21	41.2	2339	6 A26415	A26415 cDNA fragme
19	21	41.2	3492	9 S63368	S63368 Homo sapien
20	21	41.2	15602	6 AR215702	AR215702 Sequence
21	21	41.2	45584	9 AY264804	AY264804 Homo sapi
22	21	41.2	115602	9 HS1118D24	AL031276 Human DNA
23	21	41.2	122105	2 AL355998	AL355998 Homo sapi
24	21	41.2	153904	2 BX510650	BX510650 Homo sapi
25	21	41.2	187877	2 AC023251	AC023251 Homo sapi

ALIGNMENTS

RESULT 1
G15915
LOCUS human STS CHIC.UTR_02819_M32315.D65016 clone UTR_02819_M32315,
DEFINITION sequence tagged site.
ACCESSION G15915
VERSION G15915.1 GI:1161804
KEYWORDS STS; STS sequence; primer; sequence tagged site.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 870)
Murray,J., Sheffield,V., Weber,J.L., Duyk,G. and Buetow,K.H.
Cooperative Human Linkage Center
Unpublished (1995)
Synonyms: UTR_02819_M32315, CHIC.UTR_02819_M32315.T36190
Contract: Dr. Jeffrey C. Murray
UofI
The University of Iowa
Department of Pediatrics, Iowa City, IA 52242, USA
Tel: (319) 356-3508
Fax: (319) 356-3347
Email: jeff-murray@iowa.edu

Primer A: CCCGACTCTCTGACCTG
Primer B: GCTTCATGGGTGACTCAGG
STS size: 206
PCR Profile:

denature: 30 seconds at 94 degrees C
annealing: 75 seconds at 55 degrees C
extension: 15 seconds at 72 degrees C
PCR cycles: 27
extension: 6 minutes at 72 degrees C

Protocol:

Template: 30ng genomic DNA
Primer: each 1.5 pmole
dNTPs: each 200 uM
Tag Polymerase: 0.3 units
Total Vol: 10 uL

Buffer:

MgCl2: 1.5mM
KCl: 50mM
Tris: 10mM
pH: 8.3

FEATURES

Location/Qualifiers
1..870

source
Prepared with primer pairs derived from M32315.
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

STS

primer_bind
272..477

primer_bind

complement(458..477)

BASE COUNT

157 a 246 c 279 g 188 t

ORIGIN

Query Match 100.0%; Score 51; DB 11; Length 870;
Best Local Similarity 100.0%; Pred. No. 2.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 51

Db

175 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 225

RESULT 2

AR152033 2224 bp DNA linear PAT 08-AUG-2001

LOCUS

Sequence 2 from patent US 6232446.

ACCESSION

AR152033 GI:15118083

VERSION

AR152033.1

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unclassified.

REFERENCE

1 (bases 1 to 2224)

AUTHORS

Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.

TITLE

TNF ligands

JOURNAL

Patent: US 6232446-A 2 15-MAY-2001;

FEATURES

Location/Qualifiers
1..2224

source

/organism="unknown"

BASE COUNT

435 a 698 c 689 g 402 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.1e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 51

Db

1650 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 1700

RESULT 3

AR308134 2224 bp mRNA linear PAT 12-JUN-2003

LOCUS

Sequence 1 from patent US 6555111.

ACCESSION

AR308134 GI:31699179

VERSION

AR308134.1

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unclassified.

REFERENCE

1 (bases 1 to 2224)

AUTHORS Wallach,D., Bigda,J., Beletsky,I., Mett,I. and Engelmann,H.
TITLE Method of inhibiting the cytotoxic effect of TNF with TNF
receptor-specific antibodies
JOURNAL Patent: US 6555111-A 1 29-APR-2003;
FEATURES Location/Qualifiers
source 1..2224
/organism="unknown"

BASE COUNT

435 a 698 c 689 g 402 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.1e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 51

Db

1650 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 1700

RESULT 4

A78517 2253 bp DNA linear PAT 19-OCT-1999

LOCUS

Sequence 1 from Patent EP0585939.

ACCESSION

A78517 GI:6090179

VERSION

A78517.1

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unclassified.

REFERENCE

1 (bases 1 to 2253)

AUTHORS

Mett,I. and Wallach,D.

TITLE

TNF LIGANDS

JOURNAL

Patent: EP 0585939-A 1 09-MAR-1994;
YEDA RES & DEV (IL)

FEATURES

Location/Qualifiers
1..2253

source

/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

CDS

90..1475
/note="unamed protein product"

ORIGIN

440 a 709 c 698 g 406 t

BASE COUNT

440 a 709 c 698 g 406 t

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 2253;
Best Local Similarity 100.0%; Pred. No. 2.1e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 51

Db

1650 AGCAGAGCGACGAGTTGGGAAAGCCTCTGTCGCATGATGTCCTCT 1700

RESULT 5

HSTNFR2S10 2613 bp DNA linear PRI 31-JUL-1996

LOCUS

Sequence 1 from patent US 6555111.

ACCESSION

HSTNFR2S10 GI:1469539

VERSION

HSTNFR2S10

KEYWORDS

Human tumor necrosis factor receptor 2 (TNFR2) gene, exon 10 and

SEGMENT 10 of 10
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS 1 (bases 1 to 2613)
Bellingier, C.P., White, P.S., Maris, J.M., Sulman, E.P., Jensen, S.J., Lepaslier, D., Stallard, B.J., Goeddel, D.V., de Sauvage, F.J., and Brodeur, G.M.
TITLE Physical mapping and genomic structure of the human TNFR2 gene
JOURNAL Genomics 35 (1), 94-100 (1996)
MEDLINE 96299745
PUBMED 8661109
REFERENCE 2 (bases 1 to 2613)
Bellingier, C.P., White, P.S., Maris, J.M., Sulman, E.P., Jensen, S.J., Lepaslier, D., Stallard, B.J., Goeddel, D.V., de Sauvage, F.J., and Brodeur, G.M.
TITLE Direct Submision
JOURNAL Submitted (25-MAR-1996) Christian P. Bellingier, Division of Oncology, ARC Km. 902 D, Children's Hospital of Philadelphia, 324 South 34th Street, Philadelphia, PA 19104-4318, USA
FEATURES
source
1. 2613
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="1"
/map="1p36.2"
join(US2156.1:1..167,US2157.1:7..106,US2158.1:114..242,US2159.1:7..156,US2160.1:7..100,US2161.1:95..330,US2162.1:83..160,US2163.1:7..41,US2164.1:7..211,125..2613)
/product="tumor necrosis factor receptor"
join(US2156.1:7..156,US2160.1:7..100,US2161.1:95..330,US2162.1:83..160,US2163.1:7..41,US2164.1:7..211,125..405)
/codon_start=1
/product="tumor necrosis factor receptor"
/protein_id="AAC50622.1"
/db_xref="GI:1469541"
/translation="MAPVAVMALAVGLMMAALPAQVAFPEYAPBPGSTCHLRKYDQAMOCCKSPGMAKVFCTSDVCDSCDSSTYTQIMNVPICLGGSCSSDOVEQACTREONRCTCRPGVYCALSKQEGRCAPLRKCRPGVAPRGTISDVCKPCAPGTFSTSTSDICRPHQICNVVAIPENASMDVCTSTSPRSMAPGVALHPQEVSTRSQHTQPTPEPSTASTSFLPMGSPSPABSTGDFALPVLIVGVNALLIIIVNVCVMTQVKKKPLCLQREBAKPHLPADKARGTGQGEQHLITLTAASSSSSSSSASALDRAPRTNQPOAPGVBAAGAGARASTGSSSPGCGHGTQVNCIVVAGSSSDHSSGCSQASSTMDPTDSSPSRSPKDEQVFPKXECARRSQLETFETLLGSTERPLP LGVPDAMKPPS"
join(US2157.1:7..112,US2158.1:1..248,US2159.1:1..200,US2160.1:1..106,US2161.1:1..336,US2162.1:1..218,US2163.1:1..58,US2164.1:1..234,1..2613)
/gene="TNFR2"
<1..124
/gene="TNFR2"
/number=9
125..2613
/gene="TNFR2"
/number=10
BASE COUNT 553 a 750 c 742 g 568 t
ORIGIN
Query Match 100.0%; Score 51; DB 9; Length 2613;
Best Local Similarity 100.0%; Pred. No. 2e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCAGTGTGTCCTCT 51
|||||
Db 580 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCAGTGTGTCCTCT 630
|||||

DEFINITION human STS SHGC-31494, sequence tagged site.
ACCESSION G26865
VERSION G26865.1 GI:1375115
KEYWORDS STS; STS sequence; primer; sequence tagged site.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS 1 (bases 1 to 3380)
Myers, R.M.
JOURNAL Unpublished (1995)
COMMENT
Contact: Richard M. Myers
Stanford Human Genome Center (SHGC)
Stanford University School of Medicine
Department of Genetics, M-344, Stanford, CA 94305, USA
Tel: 4157259687
Fax: 4157259689
Email: myers@shgc.stanford.edu
Primer A: CCCACACACAGCAGCTCTGA
Primer B: CACAGAGTCACGAGACTTGC
STS size: 201
PCR Profile:
Initial incubation: 94 degrees C for 90 seconds
Denaturation: 94 degrees C for 15 seconds
Annealing: 62 degrees C for 23 seconds
Polymerization: 72 degrees C for 30 seconds
PCR Cycles: 30
Thermal Cycler: Perkin Elmer 9600
Protocol:
Template: 25 ng
Primer: each 1 uM
dNTPs: each 200 uM
Taq Polymerase: 0.05 units/ul
Total Vol: 10 ul
Buffer:
MgCl2: 2.5 mM
KCl: 50 mM
Tris-HCl: 20 mM
pH: 8.3
Prepared with primer pairs provided by Sandoz, derived from M3215
-- Washington University/Merck EST sequence.
FEATURES
source
1. 3380
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/map="1"
STS
primer_bind 1561..1761
1561..1580
BASE COUNT 703 a 1029 c 1004 g 644 t
ORIGIN
Query Match 100.0%; Score 51; DB 11; Length 3380;
Best Local Similarity 100.0%; Pred. No. 1.9e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCAGTGTGTCCTCT 51
|||||
Db 1650 AGCAGAGCGACGAGTGGGGAAGCCTCTGCTGCCAGTGTGTCCTCT 1700
|||||

RESULT 6
G26865 3380 bp DNA linear STS 14-JUN-1996
LOCUS G26865 3380 bp DNA linear STS 14-JUN-1996
DEFINITION Sequence 3 from patent US 6410324.
ACCESSION AR215688
VERSION AR215688.1 GI:23313944

KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE
1 (bases 1 to 3683)
AUTHORS Bennett,C.F. and Watt,A.T.
TITLE Antisense modulation of tumor necrosis factor receptor 2 expression
JOURNAL Patent: US 6410324-A 3 25-JUN-2002;
FEATURES
source
1..3683
/organism="unknown"
BASE COUNT 781 a 1098 c 1086 g 718 t

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 51
1650 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 1700

RESULT 8
AX333705 3683 bp DNA linear PAT 09-JAN-2002
LOCUS Sequence 4214 from Patent WO0194629.
DEFINITION AX333705
ACCESSION AX333705
VERSION AX333705.1 GI:18124424
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1 Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horigan,S., Soppet,D.R. and Weaver,Z.
TITLE Cancer gene determination and therapeutic screening using signature
JOURNAL Patent: WO 0194629-A 4214 13-DEC-2001;
FEATURES
source
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 781 a 1098 c 1086 g 718 t
ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 51
1650 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 1700

RESULT 9
AX348016 3683 bp DNA linear PAT 06-FEB-2002
LOCUS Sequence 49 from Patent EP1172444.
DEFINITION AX348016
ACCESSION AX348016
VERSION AX348016.1 GI:18614126
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1 Schreiber,S., Hampe,J. and Mascheretti,S.
AUTHORS
TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf

JOURNAL therapy
Patent: EP 1172444-A 49 16-JAN-2002;
Conaris Research Institute GmbH (DE)
FEATURES
source
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
CDS
90..1475
/note="unnamed protein product"
/codon_start=1
/protein_id="CAD22796.1"
/db_xref="GI:18614127"
/translation="MAPVAVVAALAVGLIELMAAALPAOVAFTPYAPPEPSTGRLE
YVDQTAQCCSKSPGQAKVFCYTSSTVCDSCEDSTYTQIMNVPECLSGSCSS
DQVETQACTRQNRICTRPGWYCALSQEGRLCAPRKCRPGVGVARPGETSDV
KCPKAPGFTSNTSTSDICRPHQICNVVAIPGNASMDAVCTSTSRMAPGAVHLPO
PSTRSGATQTPPESTAPSTSFILPMPSPPAESGTDPAFLPVGLIVGTVAGLILII
GVNVCVINTQVKKKPLCLQREAKVPLPADPARGTQEGEQLLITAPSSSSLESS
ASALDRAPTRNQPOAPGEVAGAEAASTGSSDSPGSGHTQVNVTCIVNCSDD
HSSQSSQASSTMGDTSSPSESPDEQVPSKECAPRSQLETPELTLGSTEKPLP
LGVPDAGMKPS"
156

mat_peptide
BASE COUNT 781 a 1098 c 1086 g 718 t

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 51
1650 AGCAGAGGACGAGGAGTTGGGGAAGCCTCTGCTGCCATGATGTCCTCT 1700

RESULT 10
AX348018 3683 bp DNA linear PAT 06-FEB-2002
LOCUS Sequence 51 from Patent EP1172444.
DEFINITION AX348018
ACCESSION AX348018
VERSION AX348018.1 GI:18614128
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
1 Schreiber,S., Hampe,J. and Mascheretti,S.
AUTHORS
TITLE Diagnostic use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf
therapy
JOURNAL Patent: EP 1172444-A 51 16-JAN-2002;
Conaris Research Institute GmbH (DE)
FEATURES
source
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
CDS
90..1475
/note="unnamed protein product"
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/db_xref="GI:18614129"
/translation="MAPVAVVAALAVGLIELMAAALPAOVAFTPYAPPEPSTGRLE
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DQVETQACTRQNRICTRPGWYCALSQEGRLCAPRKCRPGVGVARPGETSDV
KCPKAPGFTSNTSTSDICRPHQICNVVAIPGNASMDAVCTSTSRMAPGAVHLPO
PSTRSGATQTPPESTAPSTSFILPMPSPPAESGTDPAFLPVGLIVGTVAGLILII
GVNVCVINTQVKKKPLCLQREAKVPLPADPARGTQEGEQLLITAPSSSSLESS
ASALDRAPTRNQPOAPGEVAGAEAASTGSSDSPGSGHTQVNVTCIVNCSDD
HSSQSSQASSTMGDTSSPSESPDEQVPSKECAPRSQLETPELTLGSTEKPLP
LGVPDAGMKPS"
156

BASE COUNT 780 a 1098 c 1087 g 718 t

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
DB 1650 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 11

AX348020 3683 bp DNA linear PAT 06-FEB-2002
LOCUS AX348020
DEFINITION Sequence 53 from Patent EP1172444.
ACCESSION AX348020
VERSION AX348020.1 GI:18614130
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1
Schreiber, S., Hampe, J. and Maccheretti, S.
Diagnostic use of polymorphisms in the gene coding for the tnf
receptor II and method for detecting non-responders to anti-tnf
therapy
Patent: EP 1172444-A 53 16-JAN-2002;
Conaris Research Institute GmbH (DE)

JOURNAL
FEATURES
source
Location/Qualifiers
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
90..1475
/note="unnamed protein product"
/codon_start=1
/protein_id="CAD22797.1"
/db_xref="GI:18614131"
/translation="MAPVAVNALAVGLEMAAALPAOVAFTPYAPDPSTCLRE
YVDTOAQCCKSCSKSPGQAKVFCRTSDTVCDSCEDSTYTOLMMWVPECLSGSRCS
DOVETQACTREONRICTCRPGMYCALSKQEGRLCAPLRKCPGFGVARPGETSDV
CKPCAPGFTSNTSTSDICRPHQICNVVALPGNABRDVCTSTPTSMAGAVLIPQ
PVSTRSOHTOPTPEPSTAPSTFILPMGPSPPARSGTDFALPGLIVGVALGLIIT
GVNVCVIMTOYKKKPLCLQREAKVPHLPADKARGTGEGEOHLITAPSSSSSISS
ASALDRAPTRNOPQAPGVEASGAEARASTSSSSSGHGTQVNVTCIVNVCSSD
HSSQCSSQASSTMGDTDSFSPSPKDEQVPSKBCARFSQLETPETLLGSTEEKPLP
LGVPDAGMKPS"

CDS

mat_peptide 780 a 1098 c 1088 g 717 t
BASE COUNT
ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
DB 1650 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 12

AX698020 3683 bp DNA linear PAT 02-APR-2003
LOCUS AX698020
DEFINITION Sequence 1 from Patent WO03009864.
ACCESSION AX698020
VERSION AX698020.1 GI:29499058
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1
Lucas, J., Dialynas, D., Briggs, K. and Scalia, A.
Agonists and antagonists of disomet for the treatment of metabolic
disorders
Patent: WO 03009864-A 1 06-FEB-2003;
GENSET SA (FR)

JOURNAL

FEATURES
source
Location/Qualifiers
1..3683
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
1..89
5'UTR
90..1475
/note="unnamed protein product"
/codon_start=1
/protein_id="CAD87412.1"
/db_xref="GI:29499059"
/translation="MAPVAVNALAVGLEMAAALPAOVAFTPYAPDPSTCLRE
YVDTOAQCCKSCSKSPGQAKVFCRTSDTVCDSCEDSTYTOLMMWVPECLSGSRCS
DOVETQACTREONRICTCRPGMYCALSKQEGRLCAPLRKCPGFGVARPGETSDV
CKPCAPGFTSNTSTSDICRPHQICNVVALPGNABRDVCTSTPTSMAGAVLIPQ
PVSTRSOHTOPTPEPSTAPSTFILPMGPSPPARSGTDFALPGLIVGVALGLIIT
GVNVCVIMTOYKKKPLCLQREAKVPHLPADKARGTGEGEOHLITAPSSSSSISS
ASALDRAPTRNOPQAPGVEASGAEARASTSSSSSGHGTQVNVTCIVNVCSSD
HSSQCSSQASSTMGDTDSFSPSPKDEQVPSKBCARFSQLETPETLLGSTEEKPLP
LGVPDAGMKPS"

5'UTR

3'UTR
BASE COUNT 781 a 1098 c 1086 g 718 t
ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.8e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
DB 1650 AGCAGAGGACGAGGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 13

HUMNFR 3683 bp mRNA linear PRI 07-JAN-1995
LOCUS HUMNFR
DEFINITION Human tumor necrosis factor receptor mRNA, complete cds.
ACCESSION M32315
VERSION M32315.1 GI:189185
KEYWORDS c-myc proto-oncogene; necrosis factor receptor.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 (bases 1 to 3683)
Smith, C.A., Davis, T., Anderson, D., Solam, L., Beckmann, M.P.,
Jerzy, R., Dower, S.K., Cosman, D. and Goodwin, R.G.
A receptor for tumor necrosis factor defines an unusual family of
cellular and viral proteins
Science 248 (4958), 1019-1023 (1990)

MEDLINE

COMMENT
Original source text: Homo sapiens lung cDNA to mRNA.
Draft entry and computer-readable sequence for [1] kindly submitted
by C.A.Smith, 30-MAR-1990, for release after publication.

FEATURES

source
Location/Qualifiers
1..3683
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cell_line="w126-VA4"
/cell_type="fibroblast"
/tissue_type="lung"
1..3683
/gene="tnfr"
90..1475
CDS
gene

Query Match	Best Local Similarity	100.0%	Score 51;	DB 9;	Length 3683;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
Db	1650	AGCAGAGCGACGAGTTGGGAAAGCCTCTGCTGCCATGTGTGTCCTCT	51		
RESULT 14					
LOCUS	BC042167	2282 bp	mRNA	linear	PRI 09-JAN-2003
DEFINITION					
Accession					
Version					
Keywords					
Source					
Organism					
Reference					
Authors					
Title					
Journal					
REMARK					
COMMENT					

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 23312365
location/Qualifiers
1..2282

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CDs
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    /mol_type="mRNA"
    /db_xref="taxon:9606"
    /clone="IMAGE:5022068"
    /tissue_type="Muscle, rhabdomyosarcoma"
    /clone_id="NH_MGC_17"
    /lab_host="DH10B-R"
    /note="Vector: pOTB7"
<1..1375
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/product="Similar to tumor necrosis factor receptor superfamily, member 1B"
/protein_id="AAH42167.1"
/db_xref="GI:27503829"
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BASE COUNT      459 a       706 c       708 g       409 t
ORIGIN
Query Match          62.7%; Score 32; DB 9; Length 2282;
Best Local Similarity 100.0%; Pred. No. 6e-07;
Matches   32; Conservative   0; Mismatches     0; Indels     0; Gaps     0
 Oy        20 GGAAAGCTCTGCTGCCCATGTGTCCTCT 51
           |||||
Db         1569 GGAAAGCTCTGCTGCCCATGTGTCCTCT 1600

RESULT 15
HUMTNFR1I      2394 bp mRNA linear PRI 03-SEP-199
LOCUS          Human tumor necrosis factor receptor II (TNFR1I) mRNA, complete cds.
ACCESSION      M55994.M38549
VERSION        M55994.1 GI:339757
KEYWORDS       glycoprotein; nerve growth factor receptor related; transmembrane protein; tumor necrosis factor receptor; tumor necrosis factor receptor II.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1..bases 1 to 2394
Koehn,T., Brewer,M.T., Baker,S.L., Schwartz,P.E., King,M.W., Hale,K.K., Squires,C.H., Thompson,R.C. and Vannice,J.L.
A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor
Proc. Natl. Acad. Sci. U.S.A. 87 (21), 8331-8335 (1990)
91045991
JOURNAL MEDLINE PUBMED
2112983
Original source text: Human histiocytic lymphoma cell line U937, CDNA to mRNA.
FEATURES
source
location/Qualifiers
1..2394
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cell_line="U937"
/cell_type="histiocytic lymphoma"
1..2394
/gene="TNFR1I"
93..1478
CDs
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REFERENCE	AUTHORS	TITLE	JOURNAL	REMARK	COMMENT
2 (bases 1 to 3692)	Strausberg, R.	Direct Submission			
		Submitted (02-JUN-2003)	National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA		
		NIH-MGC Project URL:	http://mgc.nci.nih.gov		
		Contact:	MGC help desk		
		Email:	cgabs-remail.nih.gov		
		Tissue Procurement:	Dr. James R. Lupski		
		cDNA Library Preparation:	Life Technologies, Inc.		
		cDNA Library Arrayed by:	The I.M.A.G.E. Consortium (ULNL)		
		DNA Sequencing by:	Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305		
		Web site:	http://www.sbgc.stanford.edu		
		Contact:	(Dickson, Mark) mcd@paxil.stanford.edu		
			Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.		
FEATURES	SOURCE	<p>Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ULNL at: http://image.llnl.gov</p> <p>Series: IRAC Plate: 110 Row: n Column: 2</p> <p>This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 2312365.</p> <p>Location/Qualifiers</p> <p>1..3692</p> <p>/organism="Homo sapiens"</p> <p>/mol_type="mRNA"</p> <p>/db_xref="taxon:9606"</p> <p>/clone="MGC:50023 IMAGE:6198614"</p> <p>/tissue_type="Peripheral Nervous System, sympathetic trunk"</p> <p>/clone_lib="Lupski_sym pathetic_trunk"</p> <p>/lab_host="DH10B"</p> <p>/note="Vector: pCMV-SPORT6"</p> <p>1..3692</p> <p>/gene="TNFRSF1B"</p> <p>/note="SYNonyms: CD120b, TNF-R-II, TNFR, TNFR2, TNFR80, p75NFR, TBP11, TNF-R75, p75"</p> <p>/db_xref="LOCUSID:7133"</p> <p>/db_xref="MIM:191191"</p> <p>88..1473</p> <p>/codon_start=1</p> <p>/product="tumor necrosis factor receptor 2, precursor"</p> <p>/protein_id="AAH52977.1"</p> <p>/db_xref="GI:31419790"</p> <p>/db_xref="Locustid:7133"</p> <p>/translation="MAPVAVMAALAVLELMAAHLPAQVAFTPYAPEDSGTCLRELYQDTAOMCCSCSPGQHAFCPTKTSIDYDCSEBSTDYQLNMWVECLSCGRSSDOVETQACRBNRICTCRGAWCALSGGCLCAPLRCPGFVARGTETSDVVCRCARCTPSNTSSIDICRPHOICNVVALPQNASMDAYCTSTSPRSMAPGVHLFQPVNCRSHQTPPEPSSTAFSTFLPFWGSPFPAEGSTGDPALFVGLIVGTALGDLITGVACVMTQVKKRPLCLQREAVPHLPADKAGTQGEQOHLITAPSSSSSLSSASALDRAPASTRNQPOAPGVASGAGEARASTGSDSPGCHGTQVNTCTIVNCCSSSDHSSCCSSQASTTMDTSDSPSSPKEQVFPFSKECAFRSQLETPETLIGSTREKPLPLGVPDAAMKRS"</p>			
CDS	gene				
BASE COUNT	ORIGIN	<p>791 a 1098 c 1085 g 718 t</p>			
Query Match	62.7%;	Score 32;	DB 9;	Length 3692;	
Best Local Similarity	100.0%;	Pred. No. 5.2e-07;			
Matches 32;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
0y	20	GGAAAGCCTCTGCTGCATGAGTGTCCCTCT	51		
Db	1667	GGAAAGCCTCTGCTGCATGAGTGTCCCTCT	1698		
RESULT 17	AX348013	23 bp	DNA	linear	PAT 06-FEB-2002
LOCUS	AX348013	Sequence 46	From Patent EP1112244.		
DEFINITION	Sequence 46	From Patent EP1112244.			

ACCESSION AX348013
VERSION AX348013.1 GI:18614123
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS
TITLE
JOURNAL
CONARIS Research Institute GmbH (DE)
Patent: EP 1172444-A 46 16-JAN-2002;
therapeutic use of polymorphisms in the gene coding for the tnfr
receptor II and method for detecting non-responders to anti-tnf
therapy

BASE COUNT 1 a 8 c 6 g 8 t
ORIGIN

Query Match 43.1%; Score 22; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 CCTCTGCTGCATGATGTC 47
Db 1 CCTCTGCTGCATGATGTC 22

RESULT 18
LOCUS A26415 2339 bp DNA linear PAT 26-APR-1995
DEFINITION CDNA fragment for (75KD TNF-BP) tumor necrosis factor binding
protein from patent EP0417563.
ACCESSION A26415
VERSION A26415
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 (bases 1 to 2339)
AUTHORS
TITLE
JOURNAL
F. HOFMANN-LA ROCHE AG
Patent: EP 0417563-A 27 20-MAR-1991;
TNF-binding proteins
Schlaeger, E.J., Dembic, Z., Gentz, R., Lesslauer, W., Loetscher, H. and
Loetscher, H.

FEATURES
source
1. .2339
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
<1. .1179
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/protein_id="CA01806.1"
/db_xref="GI:904971"

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PEPSTAPSTFILPMGSPSPAGSTGDFALPVLITGVNAILGLITIGVNCVIMTOVK
KRLCLCREAKVPHLPADKARCTGCEQCHLITASSSSSSLESASALDRAPTRN
QPPAGVEASGAGARASTSSADSSPGGHGTQVNTCTVNCSSSDHSSQCSQSS
TMDTSSPSPSEPKDQVFPFSKECAFRSOLETPILSTETEKPLPLGVDPAGMKPS

BASE COUNT 494 a 720 c 685 g 440 t
ORIGIN

Query Match 41.2%; Score 21; DB 6; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.68;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
Db 1372 GGAAGCCTCTGCTGCCATGG 1392

RESULT 19
LOCUS S63368 3492 bp mRNA linear PRI 06-MAR-2001
DEFINITION Homo sapiens tumor necrosis factor receptor mRNA, partial cds.
ACCESSION S63368
VERSION S63368.1 GI:235648
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 3492)
AUTHORS
Dembic, Z., Loetscher, H., Gubler, U., Pan, Y.C., Lahm, H.W., Gentz, R.,
Brockhaus, M., and Lesslauer, W.
Two human TNF receptors have similar extracellular, but distinct
intracellular, domain sequences
Cytokine 2 (4), 231-237 (1990)
JOURNAL
MEDLINE
PUBMED
1966549
REMARK
Genbank staff at the National Library of Medicine created this
entry [NCBI gi1372 63368] from the original journal article.
This sequence comes from Figure 1.

FEATURES
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1. .3492
/organism="Homo sapiens"
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/db_xref="taxon:9606"
<1. .1278
/note="75-kDa; This sequence comes from Figure 1; TNF
receptor"
/codon_start=1
/product="tumor necrosis factor receptor"
/protein_id="AAB19824.2"
/db_xref="GI:1336879"

CDS
/translation="GSTRRLREYVDOTQNMCSKSPGQHAKECTKSDTVQSCSD
STYOLMNVPECLSGSRSSDQVETQACTREONRICTCRPGWYCALSKQEGRLCA
PLKCRPGVAPGRTSDVCKPCAPETSENTSPTPRMAGVAILPQVSTRSOHTOPS
DAVCTSPTRMAGVAILPQVSTRSOHTOPSPEPSTAPSTFILPMGSPSPAGS
TGDFALPVLITGVNAILGLITIGVNCVIMTOVKKRLCLCREAKVPHLPADKARCTG
CEQCHLITASSSSSSLESASALDRAPTRNQPAGVEASGAGARASTSSADSSPGGHGTQVNTCTVNCSSSDHSSQCSQSS
SPGHGTQVNTCTVNCSSSDHSSQCSQSSMTGDDSSPSPSEPKDQVFPFSKEC
AFRSOLETPILSTETEKPLPLGVDPAGMKPS"

BASE COUNT 757 a 1031 c 1006 g 698 t
ORIGIN

Query Match 41.2%; Score 21; DB 9; Length 3492;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
Db 1472 GGAAGCCTCTGCTGCCATGG 1492

RESULT 20
LOCUS AR215702 15602 bp DNA linear PAT 25-SEP-2002
DEFINITION Sequence 17 from patent US 6410324.
ACCESSION AR215702
VERSION AR215702.1 GI:23313958
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.
REFERENCE
1 (bases 1 to 15602)
AUTHORS
Bennett, C.F. and Watt, A.T.
Antisense modulation of tumor necrosis factor receptor 2 expression

JOURNAL Patent: US 6410324-A 17-25-JUN-2002;
FEATURES Location/Qualifiers
source 1..15602 /organism="unknown"
BASE COUNT 3439 a 4290 c 4227 g 3646 t
ORIGIN

Query Match 41.2%; Score 21; DB 6; Length 15602;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 20 GGAAAGCCTGCTGCCATGG 40
Db 11202 GGAAAGCCTGCTGCCATGG 11222

RESULT 21
AY264804 45584 bp DNA linear PRI 10-APR-2003
DEFINITION Homo sapiens tumor necrosis factor receptor superfamily, member 1B
(TNFRSF1B) gene, complete cds.
ACCESSION AY264804
VERSION AY264804.1 GI:29725899
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 45584)
Rieder,M.J., Livingston,R.J., Daniel,M.R., Chung,M.-W.,
Miyamoto,K.E., Nguyen,C.P., Nguyen,D.A., Poel,C.L., Robertson,P.D.,
Schackwitz,W.S., Sherwood,J.K., Wiltrik,L.A. and Nickerson,D.A.
Direct Submission
Submitted (28-MAR-2003) Genome Sciences, University of Washington,
1705 NE Pacific Seattle, WA 98195, USA
COMMENT To cite this work please use: NIHIS-SNPs, Environmental Genome
Project, NIHIS ES15478, Department of Genome Sciences, Seattle, WA
(URL: <http://esp.gs.washington.edu>).
FEATURES Location/Qualifiers
source 1..45584
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
repeat_region 140..271
/rpt_family="I2"
/rpt_type=dispersed
variation 219 /frequency="0.01"
/replace="c"
225
/frequency="0.12"
/replace="a"
variation 248 /frequency="0.03"
/replace="c"
249
/frequency="0.04"
/replace="a"
variation 779..795 /frequency="0.01"
/replace="a"
793
/frequency="0.01"
/replace="c"
variation 807 /frequency="0.01"
/replace="c"
variation 842 /frequency="0.02"
/replace="c"
repeat_region 1184..1217
/rpt_family="MTR"
/rpt_type=dispersed

repeat_region 1224..1521
/rpt_family="A1u"
/rpt_type=dispersed
variation 1261 /frequency="0.01"
/replace="a"
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1596
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1626
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1692..1706
/frequency="0.25"
/replace="a"
1815..1834
/frequency="0.99"
/replace="a"
1847..1849
/frequency="0.97"
/replace="t"
1962..44212
/gene="TNFRSF1B"
join(1962..2136,23759..23858,25920..26048,26756..26905,
27413..27506,27845..28080,28937..29014,29566..29600,
36951..37155,41724..44212)
/gene="TNFRSF1B"
/product="tumor necrosis factor receptor superfamily,
member 1B"
1976
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/frequency="0.01"
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1992
/gene="TNFRSF1B"
/frequency="0.01"
/replace="t"
2023..2030
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join(2059..2136,23759..23858,25920..26048,26756..26905,
27413..27506,27845..28080,28937..29014,29566..29600,
36951..37155,41724..42004)
/gene="TNFRSF1B"
/codon_start=1
/product="tumor necrosis factor receptor superfamily,
member 1B"
/protein_id="AA089076.1"
/db_xref="GI:29725900"
/translation="MAPVAWALAVGLELMAAALPAQVAFPTPAPEPGSTGRLE
YVDQTAQCCSKCSPGQAHVFCYTKTSDTWCSDCESTYQLMNMFECSCGRCSS
DOVEQACREONRICRPGWCALSKGECRLCAPIKRCRPGVARPGTETSDVY
CKPCAPEGTSNTSSTDICRPHQICNVVAIPGNASMDAVCTSGTSPMSAGAYHLQ
PVTRSGHTQPTPEPSTAPSTFLLPMPGSPRAGSGDPAIPGLIVGYTALGLIIT
GVNVCVMTQYKKKPLCLQREBAKVPHLPADARSTQGEQGHILITAPSSSSLESS
ASALDRAPTRNOPQAPGVASGAGARASGSDSPGGGTGVNTVCIVNVSSSD
HSSQSSQASSTMGDTDSSPSSEPKDQVFPVSKCAFRSLFETPETLIGSTERKPLP
LGVPDAQMKPS"
2212
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2286
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/frequency="0.01"
/replace="c"
2751
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/frequency="0.02"

variation	/replace="c" 2775 /gene="TNFRSF1B" /frequency="0.01" /replace="g" 2781 /gene="TNFRSF1B" /frequency="0.01" /replace="g" 3143 /gene="TNFRSF1B" /frequency="0.01" /replace="a" 3224 /gene="TNFRSF1B" /frequency="0.01" /replace="a" 3224 /gene="TNFRSF1B" /frequency="0.01" /replace="a" 3470. 7483 /gene="TNFRSF1B" /note="Region not scanned for variation" 3662. .3856 /rpt_family="L2" /rpt_type=dispersed 4270. .4489 /rpt_family="MIR" /rpt_type=dispersed 5629. .5939 /rpt_family="Alu" /rpt_type=dispersed 5955. .6217 /rpt_family="Alu" /rpt_type=dispersed 6100. 6606 /rpt_family="L2" /rpt_type=dispersed 6607. .6802 /rpt_family="MER1_type" /rpt_type=dispersed 6803. 6849 /rpt_family="L2" /rpt_type=dispersed 7234. .7391 /rpt_family="MIR" /rpt_type=dispersed 7713 /gene="TNFRSF1B" /frequency="0.35" /replace="c" 7867 /gene="TNFRSF1B" /frequency="0.01" /replace="a" 7905 /gene="TNFRSF1B" /frequency="0.01" /replace="c" 7915 /gene="TNFRSF1B" /frequency="0.02" /replace="c" 7968 /gene="TNFRSF1B" /frequency="0.06" /replace="a" 8024. .8163 /rpt_family="MIR" /rpt_type=dispersed 8211 /gene="TNFRSF1B" /frequency="0.01" /replace="c" 8574
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	Query Match	Similarity	40.2%	Score 21	DB 9	Length 45584
	Best Local	Similarity	100.0%	Pred. No. 0.29		
	Matches	21	Conservative	0	Mismatches	0
					Indels	Gaps
Qy	20	GGAAAGCCTCTGCTGCCATG	40			
Db	42198	GGAAAGCCTCTGCTGCCATG	42218			

RESULT 22
HS1118D24/c
LOCUS HS1118D24 115602 bp DNA linear PRI 04-MAR-2003
DEFINITION Human DNA sequence from clone RPS-1118D24 on chromosome
1p36.11-36.33, complete sequence.
ACCESSION AL031276
VERSION AL031276.1 GI:3947780
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 115602)
AUTHORS Heath,P.
JOURNAL Direct Submission
Submitted (04-MAR-2003) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail equities:
humanyes@sanger.ac.uk
COMMENT Clone request: clonerequest@sanger.ac.uk
On Dec 2, 1998 this sequence version replaced gi:3724207.

Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: <http://www.sanger.ac.uk>
Contact: hunguery@sanger.ac.uk

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality > 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YVC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 1, constructed by the Sanger Centre Chromosome 1 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Chrl>

RPS-118924 is from the library RPS-5 constructed by the group of Plater de JONG. For further details see <http://www.chori.org/bacpac/home.htm>

VECTOR: pCYPAC2.

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FEATURES
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                /organism="Homo sapiens"
                /mol_type="genomic DNA"
                /db_xref="R2PD:R2PCTP704D241118
                /db_xref="taxon:9606"
                /chromosome="1"
                /map="p36.11-36.33"
                /clone="RP5-1118D24"
                /clone_1fb="R2PCT-5"
                /clone_1fb="R2PCT-5"
BASE COUNT
    34070 a 26789 c 25300 g 29443 t
ORIGIN

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Query Match 41.2%; Score 21; DB 9; Length 115602;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
Db 104401 GGAAGCCTCTGCTGCCATGG 104381

RESULT 23
AL355998 122105 bp DNA linear HTG 07-SEP-2001
LOCUS Homo sapiens chromosome 1 clone RP5-1125M11, *** SEQUENCING IN
DEFINITION PROGRESS ***
ACCESSION AL355998.9 GI:15523662
VERSION HTG; HTGS_PHASE2; HTGS_CANCELLED.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS Smith, M.
TITLE Direct Submission
JOURNAL Submitted (05-SEP-2001) Sanger Centre, Hinxton, Cambridgeshire,
CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
requests: clonerequest@sanger.ac.uk
On Sep 7, 2001 this sequence version replaced gi:13897067.

COMMENT
----- Genome Center
Center: Sanger Centre
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: dj1125M11
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Sequencing vector: plasmid; 108752; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Consensus quality: 121044 bases at least Q40
Consensus quality: 121310 bases at least Q30
Consensus quality: 121451 bases at least Q20
Insert size: 122105; sum-of-contigs
Insert size: 142339; 6.8% error; agarose-fp
Quality coverage: 8.74x in Q20 bases; sum-of-contigs Quality
coverage: 7.58x in Q20 bases; agarose-fp

* NOTE: This is a 'working draft' sequence.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.

FEATURES
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/mol_type="genomic DNA"
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/chromosome="1"
/clone="RP5-1125M11"
/clone_11b="RP1-5"
1. 122105
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/note="assembly fragment:02659"
BASE COUNT 27894 a 31136 c 32658 g 30417 t
ORIGIN

Query Match 41.2%; Score 21; DB 2; Length 122105;
Best Local Similarity 100.0%; Pred. No. 0.22;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
Db 114825 GGAAGCCTCTGCTGCCATGG 114845

RESULT 24
BX510650 153904 bp DNA linear HTG 15-MAY-2003
LOCUS Homo sapiens chromosome 1 clone RP11-2667, *** SEQUENCING IN
DEFINITION PROGRESS ***; 15 unordered pieces.
ACCESSION BX510650.2 GI:30840317
VERSION HTG; HTGS_PHASE1; HTGS_CANCELLED.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS McLay, K.
TITLE Bases 1 to 153904
JOURNAL Submitted (14-MAY-2003) Wellcome Trust Sanger Institute, Hinxton,
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk
requests: clonerequest@sanger.ac.uk
On May 16, 2003 this sequence version replaced gi:30722033.

COMMENT
----- Genome Center
Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: humquery@sanger.ac.uk
----- Project Information
Center project name: ba2667
----- Summary Statistics
Assembly program: XGAP4; version 4.5
Chemistry: Dye-terminator; 100% of reads
Consensus quality: 147937 bases at least Q40
Consensus quality: 148717 bases at least Q30
Consensus quality: 149207 bases at least Q20
Insert size: 152504; sum-of-contigs
Insert size: 162837; 8.8% error; agarose-fp
Quality coverage: 6.71x in Q20 bases; sum-of-contigs Quality
coverage: 6.61x in Q20 bases; agarose-fp

* NOTE: This is a 'working draft' sequence. It currently
* consists of 15 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 16251: contig of 16251 bp in length
* 16252: gap of 100 bp
* 16352: 20265: contig of 3914 bp in length
* 20266: gap of 100 bp
* 20365: gap of 100 bp
* 27411: contig of 7046 bp in length
* 27412: gap of 100 bp
* 27512: contig of 4779 bp in length
* 32290: contig of 100 bp
* 32390: gap of 100 bp
* 34723: contig of 2333 bp in length
* 34823: gap of 100 bp
* 34824: contig of 2852 bp in length
* 37675: gap of 100 bp
* 37676: gap of 100 bp
* 37776: contig of 8098 bp in length
* 45873: gap of 100 bp
* 45973: gap of 100 bp
* 45974: gap of 100 bp
* 51965: contig of 5992 bp in length
* 51966: gap of 100 bp
* 52065: gap of 100 bp
* 56024: contig of 3959 bp in length
* 56025: gap of 100 bp
* 56125: gap of 100 bp
* 71177: contig of 15053 bp in length
* 71277: gap of 100 bp
* 71278: gap of 100 bp
* 73321: contig of 2044 bp in length
* 73322: gap of 100 bp
* 73422: contig of 3421 bp in length
* 76842: gap of 100 bp
* 76843: gap of 100 bp
* 81348: contig of 4406 bp in length
* 81349: gap of 100 bp
* 81449: 137011: contig of 55563 bp in length

```

* 137012 137111: gap of 100 bp
* 137112 153904: config of 16793 bp in length.
FEATURES
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      /mol_type="genomic DNA"
      /db_xref="taxon:9606"
      /chromosome="11"
      /clone="RP11-26G7"
      /clone_1fb="RPCT-11.1"
      1. 16251
        /note="assembly: fragment:00249
        fragment_chain:1
        clone_end:SP6
        vector_side:left"
        16352..20265
          /note="assembly: fragment:00234
          fragment_chain:1"
        20366..27411
          /note="assembly: fragment:01828
          fragment_chain:2"
        27512..32290
          /note="assembly: fragment:02578
          fragment_chain:2"
        32391..34723
          /note="assembly: fragment:02283
          fragment_chain:2"
        34824..37675
          /note="assembly: fragment:00610
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        37776..45873
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        45974..51965
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        52066..56024
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          /note="assembly: fragment:02132
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        71278..73321
          /note="assembly: fragment:00756
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        73422..76842
          /note="assembly: fragment:00555
          fragment_chain:3"
        76943..81348
          /note="assembly: fragment:00780"
          fragment_chain:4"
        81449..137011
          /note="assembly: fragment:01529
          fragment_chain:4"
        137112..153904
          /note="assembly: fragment:01075
          fragment_chain:4
          clone_end:T7
          vector_side:right"
BASE COUNT 37724 a 34995 c 37631 g 42135 t 1415 others
ORIGIN
Query Match 41.2%; Score 21; DB 2; Length 153904;
Best local Similarity 100.0%; Pred. No. 0.21;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAAGCCTCTGCTGCCATGG 40
Db 61301 GGAAAGCCTCTGCTGCCATGG 61321
RESULT 25
AC023251
LOCUS AC023251 187877 bp DNA linear HTG 24-AUG-2002

```

```

DEFINITION Homo sapiens chromosome 1 clone RP11-353D18 map 1, WORKING DRAFT
SEQUENCE, 25 unordered pieces.
ACCESSION AC023251
VERSION AC023251.3 GI:8076833
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE
  AUTHORS Birren, B., Linton, L., Nussbaum, C. and Lander, E.
  TITLE Homo sapiens chromosome 1, clone RP11-353D18
  JOURNAL Unpublished
  REFERENCE 2 (bases 1 to 187877)
  AUTHORS Birren, B., Linton, L., Nussbaum, C., Lander, E., Abraham, H., Allen, N.,
  Anderson, S., Baldwin, J., Barna, N., Beckert, G., Beda, F.,
  Boguslavsky, L., Boukhalter, B., Brown, A., Burkett, G., Casale, A.,
  Choquel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P.,
  Dearrellano, K., Dewar, K., Domino, M., Doyle, M., Fenesator, J.,
  Ferreira, P., Fitzhugh, W., Forrest, C., Gage, D., Galagan, J.,
  Galagan, S., Grant, G., Hagos, B., Hearford, A., Horton, L.,
  Howland, J. C., Johnson, R., Jones, C., Kam, L., Karatas, A., Klein, J.,
  Landers, T., Lehotzky, J., Levine, R., Liu, C., Liu, G., Locke, K.,
  MacDonald, P., Margulis, N., McEwan, P., McGurk, A., McKernan, K.,
  McPheters, R., Meldrim, J., Menus, L., Morrow, J., Naylor, J.,
  Norman, C. H., O'Connor, T., O'Donnell, P., Olivari, T. M., Peterson, K.,
  Pierre, N., Pisani, C., Pollara, V., Raymond, C., Riley, R., Rothman, D.,
  Roy, A., Santos, R., Severy, P., Spencer, B., Stange-Thomann, N.,
  Stojanovic, N., Sudrmanian, A., Talamas, D., Testaye, S., Theodore, J.,
  Tirrell, A., Vassiliev, H., Viel, R., Vo, A., Wu, X., Wyman, D., Ye, W. J.,
  Zimmer, A. and Zody, M.
  DIRECT SUBMISSION
  TITLE Submitted (10-FEB-2000) Whitehead Institute/MIT Center for Genome
  JOURNAL Research, 320 Charles Street, Cambridge, MA 02141, USA
  REFERENCE 3 (bases 1 to 187877)
  AUTHORS Birren, B., Linton, L., Nussbaum, C., Lander, E., Abraham, H., Allen, N.,
  Anderson, S., Baldwin, J., Barna, N., Bastien, V., Beda, F.,
  Boguslavsky, L., Boukhalter, B., Brown, A., Burkett, G.,
  Camogliano, A., Casale, A., Choquel, Y., Colangelo, M., Collins, S.,
  Collymore, A., Cooke, P., Dearrellano, K., Dewar, K., Diaz, J. S.,
  Dodge, S., Domino, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D.,
  Galagan, J., Galagan, S., Ginde, S., Goyette, M., Graham, L.,
  Grand-Pierre, N., Grant, G., Hagos, B., Hearford, A., Horton, L.,
  Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kam, L., Karatas, A.,
  Klein, J., Larocque, K., Lamazares, R., Landers, T., Lehotzky, J.,
  Levine, R., Lien, C., Liu, C., Locke, K., MacDonald, P., Margulis, N.,
  McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheters, R.,
  Meldrim, J., Menus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J.,
  Murphy, T., Naylor, J., Norman, C. H., O'Connor, T., O'Donnell, P.,
  O'Neill, D., Olivari, T. M., Oliver, J., Peterson, K., Pierre, N.,
  Pisani, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D.,
  Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B.,
  Stange-Thomann, N., Stojanovic, N., Sudrmanian, A., Talamas, J.,
  Testaye, S., Theodore, J., Tirrell, A., Travers, M., Triggilio, J.,
  Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J.,
  Young, G., Zainoun, J., Zimmer, A. and Zody, M.
  DIRECT SUBMISSION
  TITLE Submitted (24-AUG-2002) Whitehead Institute/MIT Center for Genome
  JOURNAL Research, 320 Charles Street, Cambridge, MA 02141, USA
  COMMENT On May 25, 2000 this sequence version replaced g1:7139786.
  All repeats were identified using RepeatMasker:
  Smit, A.F.A. & Green, P. (1996-1997)
  http://ftp.genome.washington.edu/RM/RepeatMasker.html
  ----- Genome Center
  Center: Whitehead Institute/ MIT Center for Genome Research
  Center code: WIBR
  Web site: http://www-seq.wi.mit.edu
  Contact: sequence.submissions@genome.wi.mit.edu
  ----- Project Information
  Center project name: 16342
  Center clone name: 353_D_18
  ----- Summary Statistics
  Sequencing vector: M13; M77815; 100% of reads

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Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; Version 0.960731
 Consensus quality: 177330 bases at least Q40
 Consensus quality: 182502 bases at least Q30
 Consensus quality: 184382 bases at least Q20
 Insert size: 188000; agarose-fp
 Insert size: 185477; sum-of-coverage
 Quality coverage: 4.9 in Q20 bases; agarose-fp
 Quality coverage: 4.9 in Q20 bases; sum-of-coverage

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 25 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

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1      1587: contig of 1587 bp in length
*      1588      1687: gap of 100 bp
*      1688      3808: contig of 2121 bp in length
*      3808      3908: gap of 100 bp
*      3908      6391: contig of 2483 bp in length
*      6391      6491: gap of 100 bp
*      6491      8438: contig of 1947 bp in length
*      8438      8539: gap of 100 bp
*      8539      11095: contig of 2557 bp in length
*      11095     11195: gap of 100 bp
*      11195     14256: contig of 3061 bp in length
*      14256     14356: gap of 100 bp
*      14356     18925: contig of 4569 bp in length
*      18925     19025: gap of 100 bp
*      19025     22429: contig of 3404 bp in length
*      22429     22529: gap of 100 bp
*      22529     27710: contig of 5181 bp in length
*      27710     27810: gap of 100 bp
*      27810     33955: contig of 6145 bp in length
*      33955     34055: gap of 100 bp
*      34055     39058: contig of 5003 bp in length
*      39058     39158: gap of 100 bp
*      39158     44172: contig of 5014 bp in length
*      44172     44272: gap of 100 bp
*      44272     50808: contig of 6536 bp in length
*      50808     50908: gap of 100 bp
*      50908     57062: contig of 6154 bp in length
*      57062     57162: gap of 100 bp
*      57162     64064: contig of 6902 bp in length
*      64064     64164: gap of 100 bp
*      64164     70384: contig of 6220 bp in length
*      70384     70484: gap of 100 bp
*      70484     77931: contig of 7447 bp in length
*      77931     78031: gap of 100 bp
*      78031     85239: contig of 7208 bp in length
*      85239     85339: gap of 100 bp
*      85339     93719: contig of 8380 bp in length
*      93719     93819: gap of 100 bp
*      93819     102274: contig of 8455 bp in length
*      102274    102374: gap of 100 bp
*      102374    113880: contig of 11516 bp in length
*      113880    113990: gap of 100 bp
*      113990    124382: contig of 10392 bp in length
*      124382    124482: gap of 100 bp
*      124482    138011: contig of 13529 bp in length
*      138011    138111: gap of 100 bp
*      138111    154313: contig of 16202 bp in length
*      154313    154413: gap of 100 bp
*      154413    187877: contig of 33464 bp in length.
  
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FEATURES

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  /mol_type="genomic DNA"
  /db_xref="taxon:9606"
  /chromosome="1"
  
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/misc_feature      124483..138011
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Query Match      41.2%; Score 21; DB 2; Length 187877;
Best Local Similarity 100.0%; Pred. No. 0.19;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  
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Search completed: December 16, 2003, 20:05:36
CPU time : 1226 secs
  
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:37:07 ; Search time 1319 Seconds
(without alignments)
939.749 Million cell updates/sec

Title: US-09-856-937A-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcgacgagcttggg.....ctgcacgtgtgtccctct 51

Scoring table: OLIGO NUC
Gapop 60.0 , Gapext 60.0

Searched: 22781392 seqs, 12152238056 residues

Word size : 20

Total number of hits satisfying chosen parameters: 13

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database :

EST:
1: em_estba:*
2: em_esthum:*
3: em_estmu:*
4: em_estnu:*
5: em_estrov:*
6: em_estcpl:*
7: em_estro:*
8: em_hcc:*
9: gb_est1:*
10: gb_est2:*
11: gb_hcc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	32	62.7	372	9	AA031826
2	32	62.7	735	14	CA426262
3	32	62.7	760	12	BI161017
4	32	62.7	932	12	BG829828

5	32	62.7	974	10	BG745202
6	32	62.7	1051	10	BF568409
7	32	62.7	1053	12	BQ052282
8	32	62.7	1102	12	BM917316
9	32	62.7	1183	10	BF569011
10	32	62.7	2291	11	BC011844
11	32	62.7	2291	11	BC011844
12	25	49.0	337	9	AW801622
13	21	41.2	703	14	CA308252

ALIGNMENTS

RESULT 1
AA031826
LOCUS
DEFINITION
372 bp mRNA linear EST 09-MAY-1997
X14111.1 Soares pregnant_uterus NBHPU Homo sapiens cDNA clone IMAGE:470493 5' similar to gb:M3315 TUMOR NECROSIS FACTOR RECEPTOR 2 PRECURSOR (HUMAN); contains element PRT5 repetitive element ; mRNA sequence.

ACCESSION
AA031826
VERSION
AA031826.1 GI:1501789
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens

REFERENCE
AUTHORS
1 (bases 1 to 372)
Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiappelli, B., Chisoe, S., Dietrich, N., Dubuque, T., Favello, A., Gish, W., Hawkins, M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Mardis, E., Moore, B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E., Underwood, K., Wohlmann, P., Waterston, R., Wilson, R., and Marra, M., Generation and analysis of 280,000 human expressed sequence tags Genome Res. 6 (9), 807-828 (1996)

TITLE
JOURNAL
MEDLINE
PUBMED
COMMENT
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lln.gov) for further information.
Insert Length: 849 Std Error: 0.00
Seq primer: -28M13 rev2 from Amersham
High quality sequence stop: 362.

FEATURES

source

1..372
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:3756495"
/db_xref="taxon:9606"
/clone="IMAGE:470493"
/sex="female"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="Soares pregnant_uterus NBHPU"
/note="Organ: uterus; Vector: pT73-Pac; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', AACTGGAAGATTCGGCGCCGCTTTTCTTTTCTTTT 3'] double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization. Library constructed by M. Fatima Bonaldo."

BASE COUNT
ORIGIN
51 a 122 c 102 g 97 t

Query Match 62.7%; Score 32; DB 9; Length 372;
 Best Local Similarity 100.0%; Pred. No. 2.4e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51
 137 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 168

RESULT 2

CA426262/c 735 bp mRNA linear EST 07-NOV-2002
 LOCUS UI-H-DFO-bek-n-21-0-UI.s1 NCI CGAP DFO Homo sapiens CDNA clone
 DEFINITION UI-H-DFO-bek-n-21-0-UI 3', mRNA sequence.

ACCESSION CA426262
 VERSION CA426262.1 GI:24788988

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 735)
 NCI-CCGAP http://www.ncbi.nlm.nih.gov/ncicgap/
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index

JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapsb@mail.nih.gov

Tissue Procurement: Dr. Jose Mercuende
 CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 DNA Distribution: Clone distribution information can be obtained
 from Dr. M. Bento Soares, bento-soares@uiowa.edu
 The following repetitive elements were found in this CDNA
 sequence: 11-300, >ALU (matched complement) 539-573, >(CANA
)nSimple repeat
 Seg primer: M13 FORWARD
 POLYA=yes.

FEATURES

source

location/Qualifiers
 1..735
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="UI-H-DFO-bek-n-21-0-UI"
 /tissue_type="Subchondral Bone"
 /dev_stage="Adult"
 /lab_host="DH10B (Life Technologies)"
 /clone_lib="NCI CGAP DFO"
 /note="Organ: Bone; Vector: pT73-Pac (Pharmacia) with a
 modified polylinker; Site 1: EcoR I; Site 2: Not I;
 NCI CGAP DFO is a CDNA library containing the following
 tissue(s): Subchondral Bone. The library was constructed
 according to Bonaldo, Lennon and Soares, Genome Research,
 6:791-806, 1996. First strand cDNA synthesis was primed
 with an oligo-dT primer containing a Not I site. Double
 stranded cDNA was ligated to an EcoR I adaptor, digested
 with Not I, and cloned directionally into pT73-Pac
 vector. The oligonucleotide used to prime the synthesis of
 first-strand cDNA contains a library tag sequence that is
 located between the Not I site and the (dT)18 tail. The
 sequence tag for this library is GTTAAGCGTC.
 TAG_LIB=UI-H-DFO
 TAG_TISSUE=subchondral bone
 TAG_SEQ=GTTAAGCGTC"

BASE COUNT 159 a 231 c 191 g 153 t 1 others

ORIGIN

Query Match 62.7%; Score 32; DB 14; Length 735;
 Best Local Similarity 100.0%; Pred. No. 2.9e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51

Db 716 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 685

RESULT 3

B161017 760 bp mRNA linear EST 05-JUL-2001
 LOCUS 60265227F1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:5019247 5',
 DEFINITION mRNA sequence.

ACCESSION B161017
 VERSION B161017.1 GI:14621018

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 760)
 NIH-MGC http://mgs.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapsb@mail.nih.gov

Tissue Procurement: ATCC
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ULNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/ULNL at:
 http://image.llnl.gov
 Plate: LHCN1834 row: e column: 08
 High quality sequence stop: 723.

FEATURES

source

location/Qualifiers
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 /organism="Homo sapiens"
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 /clone="IMAGE:5019247"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH MGC 42"
 /note="Organ: pancreas; Vector: pOTB7; Site 1: XhoI;
 Site 2: EcoRI; CDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH MGC Library."

BASE COUNT 143 a 248 c 245 g 124 t

ORIGIN

Query Match 62.7%; Score 32; DB 12; Length 760;
 Best Local Similarity 100.0%; Pred. No. 2.9e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51
 690 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 721

RESULT 4

BG829828 932 bp mRNA linear EST 22-MAY-2001
 LOCUS 602764119F1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4899436 5',
 DEFINITION mRNA sequence.

ACCESSION BG829828
 VERSION BG829828.1 GI:14177415

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 932)
 AUTHORS NIH-MGC <http://mgc.mci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-r@mail.nih.gov
 Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
 Plate: LNCMI791 row: e column: 05
 High quality sequence stop: 833.
 Location/Qualifiers

FEATURES
 source 1..932

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4899436"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_42"
 /note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
 Site_2: EcoRI; CDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."|

BASE COUNT 162 a 296 c 296 g 177 t 1 others

ORIGIN

Query Match 62.7%; Score 32; DB 12; Length 932;
 Best Local Similarity 100.0%; Pred. No. 3e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCATGCTGTCTCTCT 51
 |||||
 Db 691 GGAAAGCCTCTCTGCGCATGTGTCTCTCT 722

RESULT 5 974 bp mRNA linear EST 15-MAY-2001
 LOCUS BG745202
 DEFINITION 602723532P1 NIH_MGC_113 Homo sapiens CDNA clone IMAGE:4850143 5',
 mRNA sequence.
 ACCESSION BG745202
 VERSION BG745202
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 974)
 NIH-MGC <http://mgc.mci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-r@mail.nih.gov
 Tissue Procurement: Dr. Mark Watson
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
 Plate: LNCMI690 row: o column: 08
 High quality sequence stop: 420.
 Location/Qualifiers

FEATURES

source

1..974
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 /mol_type="mRNA"
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 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_113"
 /note="Organ: spleen; Vector: pOTB7; Site_1: XhoI; Site_2:
 EcoRI; CDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."|

BASE COUNT 301 a 245 c 285 g 143 t

ORIGIN

Query Match 62.7%; Score 32; DB 10; Length 974;
 Best Local Similarity 100.0%; Pred. No. 3.1e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCATGCTGTCTCTCT 51
 |||||
 Db 33 GGAAAGCCTCTGCTGCATGCTGTCTCTCT 64

RESULT 6

LOCUS BF568409 1051 bp mRNA linear EST 12-DEC-2000
 DEFINITION 602184408P1 NIH_MGC_42 Homo sapiens CDNA clone IMAGE:4300633 5',
 mRNA sequence.

ACCESSION BF568409
 VERSION BF568409
 KEYWORDS EST.
 SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 1 (bases 1 to 1051)
 NIH-MGC <http://mgc.mci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-r@mail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
 Plate: LNCMI159 row: o column: 02
 High quality sequence stop: 769.
 Location/Qualifiers

FEATURES
 source 1..1051

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4300633"
 /tissue_type="epithelioid carcinoma cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_42"
 /note="Organ: pancreas; Vector: pOTB7; Site_1: XhoI;
 Site_2: EcoRI; CDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."|

BASE COUNT 229 a 313 c 346 g 161 t 2 others

ORIGIN

Query Match 62.7%; Score 32; DB 10; Length 1051;
Best Local Similarity 100.0%; Pred. No. 3.1e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
|||||
690 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 721

RESULT 7

BQ052282 1053 bp mRNA linear EST 29-MAR-2002
LOCUS BQ052282.1
DEFINITION AGENCOURT 6668457 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5933511
5', mRNA Sequence.

ACCESSION BQ052282
VERSION BQ052282.1 GI:19811622
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1053)
AUTHORS NIH-MGC http://mgs.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM2118 row: c column: 16
High quality sequence stop: 649.

FEATURES

source

1..1053

Location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5933511"
/issue_type="natural killer cells, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_106"
/note="Organ: Blood; Vector: pOTB7; Site: 1: XhoI; Site 2:
EcoRI; CDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
SuperScript II RT (Life Technologies). Note: this is a
NIH MGC Library."

BASE COUNT 216 a 328 c 297 g 212 t

ORIGIN

Query Match 62.7%; Score 32; DB 12; Length 1053;
Best Local Similarity 100.0%; Pred. No. 3.1e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
|||||
726 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 695

RESULT 8

BM917316 1102 bp mRNA linear EST 12-MAR-2002
LOCUS BM917316
DEFINITION AGENCOURT_6606593 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5483819
5', mRNA Sequence.

ACCESSION

BM917316

VERSION BM917316.1 GI:19367695
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1102)
AUTHORS NIH-MGC http://mgs.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1CM2012 row: b column: 12
High quality sequence stop: 507.

FEATURES

source

1..1102

Location/Qualifiers

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5483819"
/issue_type="natural killer cells, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_106"
/note="Organ: blood; Vector: pOTB7; Site: 1: XhoI; Site 2:
EcoRI; CDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
SuperScript II RT (Life Technologies). Note: this is a
NIH MGC Library."

BASE COUNT 219 a 366 c 292 g 222 t 3 others

ORIGIN

Query Match 62.7%; Score 32; DB 12; Length 1102;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
|||||
191 GGAAAGCCTCTGCTGCCATGCTGTGCTCT 222

RESULT 9
BF569011 1183 bp mRNA linear EST 12-DEC-2000
LOCUS BF569011
DEFINITION 60218435371 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300500 3',
mRNA sequence.

ACCESSION BF569011
VERSION BF569011
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1183)
AUTHORS NIH-MGC http://mgs.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be

, 716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT

90 a 108 c 95 g 44 t

ORIGIN

Query Match

49.0%; Score 25; DB 9; Length 337;

Best Local Similarity 100.0%; Pred. No. 0.011; Mismatches 0; Indels 0; Gaps 0;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

27 CTCTGCTGCCATGCTGTGCTCTCT 51

337 CTCTGCTGCCATGCTGTGCTCTCT 313

RESULT 12

B1160187 845 bp mRNA linear EST 05-JUL-2001

LOCUS 602864057f1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:5018007 5',

DEFINITION mRNA sequence.

VERSION B1160187 GI:14620188

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS NIH-MGC http://mgc.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: L1CM1831 row: a column: 16

High quality sequence stop: 845.

Location/Qualifiers

1.845

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5018007"

/issue_type="epithelioid carcinoma cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH_MGC_42"

/note="Organ: pancreas; Vector: pOTB7; Site: 1; XhoI; Site 2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAAGAG(G). Size-selected >500bp for average insert size 1 kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH MGC Library."

BASE COUNT

147 a 258 c 261 g 179 t

ORIGIN

Query Match

43.1%; Score 22; DB 12; Length 845;

Best Local Similarity 100.0%; Pred. No. 0.51; Mismatches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

30 TGCTGCATGCTGTGCTCTCT 51

748 TGCTGCATGCTGTGCTCTCT 769

RESULT 13

CA308252 703 bp mRNA linear EST 01-NOV-2002

LOCUS CA308252/c

DEFINITION UI-H-FT1-bhy-e-02-0-UI s1 NCI CGAP_FTI Homo sapiens cDNA clone

UI-H-FT1-bhy-e-02-0-UI 3', mRNA sequence.

ACCESSION CA308252

VERSION CA308252.1 GI:24471306

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS NCI-CGAP http://www.nci.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

Unpublished

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Dr. Gary W. Hunninghake, U of I

CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa

CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

DNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Clone distribution information can be obtained

from Dr. M. Bento Soares, bento-soares@uiowa.edu

The following repetitive elements were found in this cDNA

sequence: 11-300 >ALU (matched complement) 538-572, >(CANA

)n\$imple_repeat

Seq primer: M13 FORWARD

POLYA=Yes.

Location/Qualifiers

1.703

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="UI-H-FT1-bhy-e-02-0-UI"

/issue_type="Alveolar Macrophage"

/dev_stage="Adult"

/lab_host="DH10B (Life Technologies)"

/clone_lib="NCI CGAP_FTI"

/note="Organ: Lung; Vector: pRTT3-Pac (Pharmacia) with a

modified polylinker; Site 1: EcoR I; Site 2: Not I; NCI CGAP FTI is a normalized cDNA library constructed from

a pool of 81 RNA samples from Alveolar Macrophages

challenged with different treatments. The library was

normalized according to Bonaldi, Lennon and Soares, Genome

Research, 6:791-806, 1996. First strand cDNA synthesis was

primed with an oligo-dT primer containing a Not I site.

Double stranded cDNA was ligated to an EcoR I adaptor,

digested with Not I, and cloned directionally into

pRTT3-Pac vector. The oligonucleotide used to prime the

synthesis of first-strand cDNA contains a library tag

sequence that is located between the Not I site and the

(dT)18 tail. The sequence tag for this library is

GGCCATGCGG. The tissue was provided by Dr. Gary W.

Hunninghake of the University of Iowa.

TAG LIB=UI-H-FT1

TAG_TISSUE=Human Lung Alveolar Macrophage

TAG_SEQ=GGCCATGCGG"

BASE COUNT

155 a 220 c 183 g 145 t

ORIGIN

Query Match

41.2%; Score 21; DB 14; Length 703;

Best Local Similarity 100.0%; Pred. No. 1.6; Mismatches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

31 GCTGCATGCTGTGCTCTCT 51

703 GCTGCATGCTGTGCTCTCT 683

Search completed: December 16, 2003, 20:27:41
Job time: 1320 secs

found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: L1CM1159 row: 1 column: 13
 High quality sequence stop: 716.
 Location/Qualifiers

FEATURES

source

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1.1183
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/db_xref="taxon:9606"
/clone="IMAGE:4300500"
/tissue_type="epithelioid carcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH_MGC_43"
/Note="Organ: pancreas; Vector: pOTB7, Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-ct priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAACGG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."
BASE COUNT
308 a 357 c 348 g 170 t
ORIGIN
```

Query Match 62.7%; Score 32; DB 10; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 3.2e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGTGTGTCCTCT 51
 Db 649 GGAAGCCTCTGCTGCCATGTGTGTCCTCT 618

RESULT 10
 LOCUS BC011844 2291 bp mRNA linear HTC 04-MAR-2003
 DEFINITION Homo sapiens, Similar to tumor necrosis factor receptor superfamily, member 1B, clone IMAGE:4111730, mRNA.
 ACCESSION BC011844
 VERSION BC011844.1 GI:15080140
 KEYWORDS HTC.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 2291)
 AUTHORS Strausberg R.
 TITLE Direct Submission
 JOURNAL Submitted (30-JUL-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
 CONTACT: nisc.mgc@nih.gov
 CONTACT: MGC help desk
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC
 CDNA Library Preparation: Rubin Laboratory
 DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
 Sequencing Center (MISC),
 Gaithersburg, Maryland;
 Web site: <http://www.nisc.nih.gov/>
 Contact: nisc.mgc@nih.gov

Akhter, N., Ayala, K., Beckstrom-Sternberg, S.M., Benjamin, B., Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S., Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P., Hansen, N., Ho, S.-L., Karling, E., Kwong, P., Latic, P., Legaspi, R., Maduro, Q.L., Masello, C., Maskeri, B., Mastrian, S.D., McCloskey, J.C., McDowell, J., Pearson, R., Stancijop, S., Thomas, P.J., Touchman, J.W., Tsurgren, C., Vogt, J.L., Walker, M.A., Weherby, K.D., Wiggins, L., Young, A., Zhang, L.-H. and Green, E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IPAL Plate: 28 Row: 1 Column: 15
 This clone has the following problem: retained intron.
 Location/Qualifiers

FEATURES

source

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1.2291
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4111730"
/tissue_type="muscle, rhabdomyosarcoma"
/clone_1ib="NIH_MGC_17"
/lab_host="DH10B-R"
/Note="Vector: pOTB7"
BASE COUNT
461 a 708 c 713 g 409 t
ORIGIN
```

Query Match 62.7%; Score 32; DB 11; Length 2291;
 Best Local Similarity 100.0%; Pred. No. 3.9e-06;
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGTGTGTCCTCT 51
 Db 1578 GGAAGCCTCTGCTGCCATGTGTGTCCTCT 1609

RESULT 11
 LOCUS AW801622/c 337 bp mRNA linear EST 16-MAY-2000
 DEFINITION IL5-UM0068-080400-056-b02 UM0068 Homo sapiens cDNA, mRNA sequence.
 ACCESSION AW801622
 VERSION AW801622.1 GI:7853492
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 337)
 AUTHORS Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Goldani, M.A., da Silva, W. Jr., Zaio, M.A., Bordin, S., Costa, F.F., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
 TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
 MEDLINE 20202663
 PUBMED 10737800

CONTACT: Simpson A.J.G.
 Laboratory of Cancer Genetics
 Ludwig Institute for Cancer Research
 Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
 Tel: +55-11-2704922
 Fax: +55-11-2707001
 Email: asimpson@ludwig.org.br
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
 (<http://www.ludwig.org.br/scripts/gethtml2.pl?l1=kt2=IL5-UM0068-080400-056-b02&kt3=2000-04-08&kt4=1>)
 Seq primer: puc 18 forward
 High quality sequence stop: 336.

FEATURES

source

```
1.337
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/seq_strategy="Adult"
/clone_1ib="UM0068"
/Note="Organ: uterus; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196
```

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:04:22 ; Search time 145 Seconds
(without alignments)
949.458 Million cell updates/sec

Title: US-09-856-937a-1_COPY_580_630

Sequence: 1 agcagagcagcagcttgg99.....ctgcacatgctgtccctct 51

Scoring table: OLIGO NUC
Gapop_60.0 , Gapext 60.0

Search: 2552756 seqs, 1349719017 residues

Word size : 20

Total number of hits satisfying chosen parameters: 19

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database :

N_Geneseq_19Jun03:*
1: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT:*
2: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
3: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
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5: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	51	100.0	2224	16	AAQ89544
2	51	100.0	2613	21	AA449207
3	51	100.0	2613	24	AB235564
4	51	100.0	3683	24	AB234910
5	51	100.0	3683	24	AB074753
6	51	100.0	3683	24	ABK81997
7	51	100.0	3683	24	AB165877
8	51	100.0	3683	24	ABK33465

9	51	100.0	3683	24	ABK33466	Human TNF receptor
10	51	100.0	3683	24	ABK33467	Human TNF receptor
11	40	78.4	201	19	AA12093	Human TNF receptor
12	32	62.7	2393	12	AA10907	40kD TNF inhibitor
13	32	62.7	2394	22	AA083951	Human 40 kDa TNF 1
14	25	49.0	51	22	AA129880	Human SNP oligonuc
15	22	43.1	23	24	ABK33462	Human TNF-receptor
16	21	41.2	2339	12	AA010956	Encodes human 75kD
17	21	41.2	2339	20	AA209171	Human tumour necro
18	21	41.2	2339	22	AA48860	Human TNF-receptor
19	21	41.2	15602	24	ABQ74767	Human TNF2 partia

ALIGNMENTS

RESULT 1
ID AAQ89544 standard; DNA; 2224 BP.
AC AAQ89544;
XX
XX
XX 25-MAR-2003 (updated)
DT 31-OCT-1995 (first entry)
XX
XX DE p75 Tumour Necrosis Factor Receptor.
XX KW Ligand; tumour necrosis factor; nerve growth factor; TNF; NGF;
XX receptor; ss..
XX Homo sapiens.
OS
XX
XX
XX Key Location/Qualifiers
FH 90..1475
FT /tag= a
FT /product= p75 TNF receptor.
FT misc_difference 1137..1139
FT /tag= b
FT /cranal_except= GCA encodes Glycine.
FT misc_difference 1140..1142
FT /tag= c
FT /cranal_except= CCA encodes Alanine.
FT misc_difference 1146..1148
FT /tag= d
FT /cranal_except= GTG encodes Glutamic acid.
FT misc_difference 1149..1151
FT /tag= e
FT /cranal_except= GAG encodes Alanine.
FT misc_difference 1152..1154
FT /tag= f
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FT misc_difference 1155..1157
FT /tag= g
FT /cranal_except= AGT encodes Alanine.
FT misc_difference 1158..1160
FT /tag= h
FT /cranal_except= GGG encodes Serine.
FT misc_difference 1161..1163
FT /tag= i
FT /cranal_except= GCC encodes Threonine.
FT misc_difference 1167..1169
FT /tag= j
FT /cranal_except= GAG encodes Serine.
FT misc_difference 1170..1172
FT /tag= k
FT /cranal_except= GCC encodes Serine.
FT misc_difference 1173..1175
FT /tag= l
FT /cranal_except= CCG encodes Aspartic acid.
FT misc_difference 1176..1178
FT /tag= m
FT /cranal_except= GCC encodes Serine.
FT misc_difference 1182..1184

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```

FT      /*tag= n
FT      /transl_except= ACC encodes Proline.
FT      misc_difference 1188..1190
FT      /*tag= o
FT      /transl_except= AGC encodes Glycine.
FT      misc_difference 1191..1193
FT      /*tag= p
FT      /transl_except= TCA encodes Histidine.
FT      misc_difference 1194..1196
FT      /*tag= q
FT      /transl_except= GAT encodes Glycine.
FT      misc_difference 1197..1199
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FT      misc_difference 2015..2016
FT      /*tag= w
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FT      misc_difference 2017..2018
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FT      misc_difference 2019..2021
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FT      EP648783-A1.
PN      19-APR-1995.
XX      PD
XX      11-OCT-1994; 94EP-0116015.
PF      12-OCT-1993; 93IL-0107267.
PR      (YEDA ) YEDA RES & DEV CO LTD.
PA      (WALL/) WALLACH D.
XX      PI
XX      Beletsky I, Bigda J, Wett I, Wallach D;
XX      WPI; 1995-148673/20.
DR      P-PSDB; AAR72504.
XX      PT
XX      Tumour necrosis factor (TNF) receptor ligand - used to increase
XX      inhibitory effect of a soluble TNF receptor
XX      PS
XX      Disclosure; Figure 2; 18pp; English.
XX      CC
XX      A ligand to a member of the tumour necrosis factor (TNF)/nerve
XX      growth factor (NGF) receptor family which binds either to the region
XX      of the 4th-Cys rich domain of the receptor, or to the region between
XX      it and the cell membrane may be used in the inhibition of a
XX      pharmaceutical composition for increasing the inhibitory effect of a
XX      soluble receptor of the TNF/NGF receptor family. This sequence
XX      encodes the p75 TNF receptor. N in the sequence represents an
XX      unidentified nucleotide (poor reproduction in specification).
XX      CC
XX      (Updated on 25-MAR-2003 to correct PN field.)
SQ      Sequence 2224 BP; 432 A; 697 C; 688 G; 400 T; 7 other;
Query Match 100.0%; Score 51; DB 16; Length 2224;
Best Local Similarity 100.0%; Pred. No. 1,7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 AGCAGAGGACGAGATTGGGAAAGCCCTCTGCGCATGCTGTCCTCT 51
DB      1650 AGCAGAGGACGAGATTGGGAAAGCCCTCTGCGCATGCTGTCCTCT 1700
RESULT 2
AAA49207
ID      AAA49207 standard; DNA; 2613 BP.
XX      AC
XX      AAA49207;
XX      DT
XX      22-NOV-2000 (first entry)
XX      DE
XX      Human tumour ne.crosis factor alpha receptor 2 gene exon 10.
XX      KW
XX      Human; tumour necrosis factor alpha receptor 2; TNFR2; polymorphism;
XX      osteoporosis; ds.
XX      OS
XX      Homo sapiens.
FH      Key
FH      CDS
FT      1..2613
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FT      /product= "TNFR2"
FT      /partial
FT      allele
FT      replace (593,A), (598,G), (620,T)
FT      /*tag= b
FT      /label= allele_1
FT      allele
FT      replace (593,A), (598,T), (620,T)
FT      /*tag= c
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FT      replace (593,G), (598,T), (620,C)
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FT      /label= allele_3
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FT      replace (593,G), (598,T), (620,T)
FT      /*tag= e
FT      /label= allele_4
FT      allele
FT      replace (593,A), (598,T), (620,C)
FT      /*tag= f
FT      /label= allele_5
FT      WO200032826-A1.
XX      PD
XX      08-JUN-2000.
XX      PF
XX      30-NOV-1999; 99WO-US28403.
XX      PR
XX      30-NOV-1998; 98US-0110268.
XX      PA
XX      (UYDR-) UNIV DREXEL.
XX      PI
XX      Spotila LD;
XX      DR
XX      WPI; 2000-412362/35.
XX      PT
XX      Identifying individuals at risk of developing osteoporosis comprises
XX      assessing the genotype of a tumor necrosis factor-alpha 2 receptor gene
XX      in a DNA sample from an individual -
XX      PS
XX      Claim 2; Page 17-18; 21pp; English.
XX      CC
XX      The present sequence comprises exon 10 of the human tumour necrosis
XX      factor alpha receptor 2 (TNFR2) gene. The sequence contains three
XX      polymorphic sites. By determining the genotype of an individual it is
XX      possible to identify those at risk of osteoporosis, which is
XX      characterised by low bone density and fragile bones, later in life. Those
XX      at greatest risk are those who possess allele 1, which is the rarest
XX      allele. This is particularly useful as many cases of osteoporosis go
XX      undetected at present.
SQ      Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;
Query Match 100.0%; Score 51; DB 21; Length 2613;

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Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGGAGATTGGGAAAGCCTGCTGTCGCAATGATGTGTCCTCT 51
|||||
DB 580 AGCAGAGCAGGAGATTGGGAAAGCCTGCTGTCGCAATGATGTGTCCTCT 630

RESULT 3
ABZ35564
ID ABZ35564 standard; cDNA; 2613 BP.
XX
AC ABZ35564;
XX
DT 05-FEB-2003 (first entry)
XX
DE Human gene expression profile polynucleotide SEQ ID NO 675.
XX
KW Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
KW bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
KW tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
KW gene expression; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200274979-A2.
XX
PD 26-SEP-2002.
XX
PF 20-MAR-2002; 2002WO-US08456.
XX
PR 20-MAR-2001; 2001US-276947P.
XX
PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.
XX
PI Wan J, Wang Y;
XX
DR WPI; 2002-740862/80.
XX
PT New gene expression profile generated from primary, endothelial,
PT epithelial, and muscle cell types, useful for identifying disease
PT pathologies involving alterations of gene expression, e.g. cancer -
XX
PS Example 3; Page 798-799; 850pp; English.
XX
CC The invention relates to a gene expression profile comprising one or more
CC genes (ABZ34889-ABZ35692) and generated from a cell type. The cell type
CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumour type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.
XX
SQ Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 2613;

Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGGAGATTGGGAAAGCCTGCTGTCGCAATGATGTGTCCTCT 51
|||||
DB 580 AGCAGAGCAGGAGATTGGGAAAGCCTGCTGTCGCAATGATGTGTCCTCT 630

RESULT 4
ABZ34910
ID ABZ34910 standard; cDNA; 3683 BP.
XX
AC ABZ34910;
XX
DT 05-FEB-2003 (first entry)
XX
DE Human gene expression profile polynucleotide SEQ ID NO 22.
XX
KW Human; artery; endothelium; umbilical; vein; aorta; pulmonary artery;
KW bronchial epithelium; prostate; muscle; lung fibroblast; osteoblast;
KW tumour; microarray; genome mapping; antibiotic; antiviral; antifungal;
KW gene expression; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200274979-A2.
XX
PD 26-SEP-2002.
XX
PF 20-MAR-2002; 2002WO-US08456.
XX
PR 20-MAR-2001; 2001US-276947P.
XX
PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.
XX
PI Wan J, Wang Y;
XX
DR WPI; 2002-740862/80.
XX
PT New gene expression profile generated from primary, endothelial,
PT epithelial, and muscle cell types, useful for identifying disease
PT pathologies involving alterations of gene expression, e.g. cancer -
XX
PS Claim 1; Page 235-236; 850pp; English.
XX
CC The invention relates to a gene expression profile comprising one or more
CC genes (ABZ34889-ABZ35692) and generated from a cell type. The cell type
CC is a coronary artery endothelium, umbilical artery or vein endothelium,
CC aortic endothelium, dermal microvascular endothelium, pulmonary artery
CC endothelium, myometrium microvascular endothelium, keratinocyte
CC epithelium, bronchial epithelium, mammary epithelium, prostate
CC epithelium, renal cortical epithelium, renal proximal tubule epithelium,
CC small airway epithelium, renal epithelium, umbilical artery smooth
CC muscle, neonatal dermal fibroblast, pulmonary artery smooth muscle,
CC dermal fibroblast, neural progenitor cells, skeletal muscle, astrocytes,
CC aortic smooth muscle, mesangial cells, coronary artery smooth muscle,
CC bronchial smooth muscle, uterine smooth muscle, lung fibroblast,
CC osteoblasts or prostate stromal cell. The gene expression profile is used
CC for determining the level of RNA expression for a sample, determining the
CC phenotype of a cell and distinguishing cell types. The gene or a protein
CC expression profile is useful in identifying disease pathologies
CC involving alterations of gene expression. The assessment of expression
CC profiles may provide meaningful information with respect to tumour type
CC and stage, treatment methods, and prognosis. The gene or protein
CC expression profile may also be used for creating microarrays. The
CC microarray is useful for genetic and physical mapping of genomes, DNA
CC sequencing, genetic or medical diagnosis, genotyping of organisms,
CC confirming cell or tissue identifications and in identifying promising
CC antibiotics, antiviral or antifungal agents.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;

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Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1650 ACCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 1700

RESULT 5
ABO74753
ID ABO74753 standard; cDNA; 3683 BP.
AC ABO74753;
XX
XX 24-OCT-2002 (first entry)
XX
XX Human tumour necrosis factor receptor 2 encoding cDNA SEQ ID NO:3.
XX
XX Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;
XX gene; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 90..1475
XX FT /*tag= a
XX FT /product= "tumour necrosis factor receptor 2"
XX
XX US6410324-B1.
XX
XX 25-JUN-2002.
XX
XX 27-APR-2001; 2001US-0844634.
XX
XX 27-APR-2001; 2001US-0844634.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX PI Bennett CF, Watt AT;
XX
XX WPI; 2002-606814/65.
XX
XX P-PSDB; ABP52451.
XX
XX PT New compounds antisense to nucleic acid encoding human or mouse tumor
XX PT necrosis factor receptor 2 are useful to treat disease associated with
XX PT mouse tumor necrosis factor receptor 2 expression -
XX
XX PS Claim 1; Column 53-58; 69pp; English.
XX
XX CC The present invention describes compounds of 8-30 nucleobases antisense
XX CC to a nucleic acid encoding human or mouse tumour necrosis factor
XX CC receptor 2 (TNFR2). Also described is a method for inhibiting expression
XX CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro
XX CC with one of the claimed compounds. The antisense compounds are used to
XX CC treat a disease or condition associated with expression of TNFR2. The
XX CC present sequence encodes human TNFR2, which is used in an example from
XX CC the present invention.
XX
XX SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 1700

RESULT 6
ABK83997
ID ABK83997 standard; cDNA; 3683 BP.
XX

AC ABK83997;
XX
XX 14-AUG-2002 (first entry)
XX
XX Human cDNA differentially expressed in granulocytic cells #568.
XX
XX Human; ss; granulocytic cell; DNA chip; bacterial infection;
XX viral infection; parasitic infection; protozoal infection;
XX fungal infection; sterile inflammatory disease; psoriasis;
XX rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
XX cardiac reperfusion injury; renal reperfusion injury; ARDS;
XX adult respiratory distress syndrome; inflammatory bowel disease;
XX Crohn's disease; ulcerative colitis; periodontal disease;
XX granulocyte activation; chronic inflammation; allergy.
XX
XX Homo sapiens.
XX
XX PN MO200228999-A2.
XX
XX 11-APR-2002.
XX
XX 03-OCT-2001; 2001WO-US30821.
XX
XX 03-OCT-2000; 2000US-237189P.
XX
XX (GENE-) GENE LOGIC INC.
XX
XX PI Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
XX
XX WPI; 2002-435328/46.
XX
XX PT Detecting granulocyte activation by detecting differential expression
XX PT of genes associated with granulocyte activation, which serves as
XX PT diagnostic markers that is useful for monitoring disease states and
XX PT drug toxicity -
XX
XX PS Claim 1; SEQ ID NO 568; 114pp; English.

CC The invention relates to detecting (M1) granulocyte (GC) activation
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by
CC DNA chip analysis as given in the specification, and comparing
CC the expression level to an expression level in an unactivated
CC GC, where differential expression of Gs is indicative of GCA.
CC Also included are modulating (M2) GCA by contacting GC with an agent
CC that alters the expression of at least one gene in Gs; (2) screening (M3)
CC for an agent capable of modulating GCA or an inflammation (especially
CC chronic) in a tissue, an allergic response in a subject, exposure of a
CC subject to a pathogen or sterile inflammatory disease using the
CC gene expression profile; (3) detecting (M4) an inflammation (especially
CC chronic) in a tissue, an allergic response in a subject, exposure of a
CC subject to a pathogen or sterile inflammatory disease, by detecting the
CC level of expression in a sample of the tissue of gene(s) from Gs, where
CC the level of expression of the gene is indicative of inflammation;
CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,
CC an allergic response in a subject, exposure of a subject to a pathogen
CC or sterile inflammatory disease, by contacting a tissue having
CC inflammation with an agent that modulates the expression of gene(s)
CC from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
CC modulating GCA; M3 is useful for screening an agent capable of modulating
CC GCA preferably in an inflammation in a tissue; M4 is useful for
CC detecting an inflammation (especially chronic) in a tissue, an allergic
CC response in a subject, exposure of a subject to a pathogen or sterile
CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
CC reperfusion injury, ARDS, adult respiratory distress syndrome,
CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,
CC periodontal disease; also bacterial infection, viral infection,
CC parasitic infection, protozoal infection, fungal infection, and M5 is
CC useful for treating one of the above conditions. The present
CC sequence represents a gene differentially expressed in granulocytes.
CC Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic
CC format directly from WIPO at

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CC      ftp.wipo.int/pub/published_pct_sequences.
XX
SQ      Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match      100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 51
DB      1650 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 1700

RESULT 7
ABL65877
ID      ABL65877 standard; DNA; 3683 BP.
XX
XX      ABL65877;
AC
XX      15-MAY-2002 (first entry)
DT
XX
XX      Lung cancer related gene sequence SEQ ID NO:4214.
DE
XX
KW      Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW      stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW      cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocarcinoma;
KW      gene; ds.
XX
XX      Homo sapiens.
XX
XX      WO200194629-A2.
PN
XX
XX      13-DEC-2001.
PD
XX
XX      30-MAY-2001; 2001WO-US10838.
PF
XX
XX      05-JUN-2000; 2000US-209473P.
PR      05-JUN-2000; 2000US-209531P.
PR      18-SEP-2000; 2000US-233133P.
PR      18-SEP-2000; 2000US-233617P.
PR      20-SEP-2000; 2000US-234009P.
PR      20-SEP-2000; 2000US-234034P.
PR      20-SEP-2000; 2000US-234052P.
PR      22-SEP-2000; 2000US-234509P.
PR      22-SEP-2000; 2000US-234567P.
PR      25-SEP-2000; 2000US-234923P.
PR      25-SEP-2000; 2000US-234924P.
PR      25-SEP-2000; 2000US-235077P.
PR      25-SEP-2000; 2000US-235082P.
PR      25-SEP-2000; 2000US-235134P.
PR      25-SEP-2000; 2000US-235280P.
PR      26-SEP-2000; 2000US-235637P.
PR      26-SEP-2000; 2000US-235638P.
PR      27-SEP-2000; 2000US-235711P.
PR      27-SEP-2000; 2000US-235720P.
PR      27-SEP-2000; 2000US-235840P.
PR      27-SEP-2000; 2000US-235863P.
PR      28-SEP-2000; 2000US-236032P.
PR      28-SEP-2000; 2000US-236028P.
PR      28-SEP-2000; 2000US-236033P.
PR      28-SEP-2000; 2000US-236034P.
PR      28-SEP-2000; 2000US-236109P.
PR      28-SEP-2000; 2000US-236111P.
PR      29-SEP-2000; 2000US-236842P.
PR      29-SEP-2000; 2000US-236891P.
PR      02-OCT-2000; 2000US-237172P.
PR      02-OCT-2000; 2000US-237173P.
PR      02-OCT-2000; 2000US-237278P.
PR      02-OCT-2000; 2000US-237294P.
PR      02-OCT-2000; 2000US-237295P.
PR      02-OCT-2000; 2000US-237316P.
PR      03-OCT-2000; 2000US-237425P.
PR      03-OCT-2000; 2000US-237598P.

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PR      03-OCT-2000; 2000US-237604P.
PR      03-OCT-2000; 2000US-237606P.
PR      03-OCT-2000; 2000US-237608P.
PR      01-NOV-2000; 2000US-244867P.
PR      01-NOV-2000; 2000US-245084P.
XX
XX      (AVAL-) AVALON PHARM.
PA
XX
XX      Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI      Soppet DR, Weaver Z;
XX
XX      WPI; 2002-188264/24.
DR
XX
XX      Screening for anti-neoplastic agent involves exposing cells to a
PT      chemical agent to be tested for anti-neoplastic activity, and
PT      determining a change in expression of a gene of a signature gene set
XX
XX      Claim 1; SEQ ID 4214; 44pp; English.
PS
XX
XX      The present invention describes a method (M1) for screening for an
CC      anti-neoplastic agent. The method involves exposing cells to a chemical
CC      agent to be tested for anti-neoplastic activity, determining a change in
CC      expression of at least one gene (I) of a signature gene set, where (I)
CC      comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC      to ABL70110), or is at least 95% identical to (S), where a change in
CC      expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC      activity and can be used in gene therapy. M1 can be used for screening
CC      an anti-neoplastic agent, and can be used for producing a product which
CC      is the data collected with respect to the anti-neoplastic agent as a
CC      result of M1, and the data is sufficient to convey the chemical
CC      structure and/or properties of the agent. M1 can be used in the
CC      treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC      oesophageal, ovarian, kidney, prostate or pancreatic cancer,
CC      adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC      infiltrating lobular carcinoma, squamous cell carcinoma, neuroendocrine
CC      carcinoma, papillary carcinoma and Wilm's tumour.
XX
XX      Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
SQ

Query Match      100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 51
DB      1650 AGCAGAGCAGCAGATTGGGAGAAAGCCCTGCTGCTGCATGTGTGTCCTCT 1700

RESULT 8
ABK3465
ID      ABK3465 standard; DNA; 3683 BP.
XX
XX      ABK3465;
AC
XX      23-APR-2002 (first entry)
DT
XX
XX      Human TNF receptor II gene.
DE
XX
KW      Human; anti-tumour necrosis factor receptor II; TNF receptor II;
KW      chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
KW      inflammatory disorder; chronic disease; receptor; gene; ds.
XX
XX      Homo sapiens.
OS
XX
XX      Key
FH      Location/Qualifiers
FT      CDS
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FT      /*tag= a
FT      /product= "TNF receptor II"
FT      sig_peptide
FT      90..155
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FT      mat_peptide
FT      156..1472
FT      /*tag= c
XX

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PN  EPI172444-A1.
XX
XX  16-JAN-2002.
XX
XX  10-JUL-2000; 2000EP-0114786.
XX
XX  10-JUL-2000; 2000EP-0114786.
XX
XX  (CONA-) CONARIS RES INST GMBH.
XX
XX  Schreiber S, Hampe J, Mascheretti S;
XX  WPI; 2002-156651/21.
XX  P-PSDB; AAU75172.
XX
XX  Detecting non-responders to anti-human necrosis factor therapy,
XX  comprises testing an individual for homozygosity for a single
XX  nucleotide polymorphism in the gene coding for the tumour necrosis
XX  factor receptor II -
XX
XX  Disclosure; Page 23-27; 45pp; English.
XX
XX  The present invention relates to a method for detecting non-responders
XX  to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX  an individual for homozygosity for at least one single nucleotide
XX  polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX  located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX  A/G) and one in exon 6 (position 587 T/G) which result in Lys56Lys and
XX  Met196Arg respectively, are also described. The method of the invention
XX  is useful for detecting non-responders to anti-TNF therapy such as
XX  infliximab therapy, or therapy of Crohn's disease. The genes containing
XX  the 2 novel polymorphisms are useful for diagnostic purposes in
XX  inflammatory, malignant or other chronic diseases. The present sequence
XX  encodes for human TNF receptor II.
XX
SQ  Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

Query Match      100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  1 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCTCT 51
    |||||
DB  1650 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCTCT 1700

RESULT 9
ABK33466
ID  ABK33466 standard; DNA; 3683 BP.
XX
XX  ABK33466;
AC
XX
XX  23-APR-2002 (first entry)
DT
XX
XX  Human TNF receptor II gene with SNP in exon 2.
DE
XX
XX  Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
XX  chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
XX  inflammatory disorder; chronic disease; receptor; gene;
XX  single nucleotide polymorphism; db.
OS
XX  Homo sapiens.
XX
XX  Key      Location/Qualifiers
XX  CDS      90..1475
XX           /*tag= a
XX           /product= "TNF receptor II variant #1"
XX
XX  sig_peptide 90..155
XX           /*tag= b
XX  mat_peptide 156..1472
XX           /*tag= c
XX  variation replace (257, A)
XX           /*tag= d

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FT  /standard_name= "single nucleotide polymorphism"
XX
XX  EPI172444-A1.
XX
XX  16-JAN-2002.
XX
XX  10-JUL-2000; 2000EP-0114786.
XX
XX  10-JUL-2000; 2000EP-0114786.
XX
XX  (CONA-) CONARIS RES INST GMBH.
XX
XX  Schreiber S, Hampe J, Mascheretti S;
XX  WPI; 2002-156651/21.
XX  P-PSDB; AAU75173.
XX
XX  Detecting non-responders to anti-human necrosis factor therapy,
XX  comprises testing an individual for homozygosity for a single
XX  nucleotide polymorphism in the gene coding for the tumour necrosis
XX  factor receptor II -
XX
XX  Claim 15; Page 29-33; 45pp; English.
XX
XX  The present invention relates to a method for detecting non-responders
XX  to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX  an individual for homozygosity for at least one single nucleotide
XX  polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX  located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX  A/G) and one in exon 6 (position 587 T/G) which result in Lys56Lys and
XX  Met196Arg respectively, are also described. The method of the invention
XX  is useful for detecting non-responders to anti-TNF therapy such as
XX  infliximab therapy, or therapy of Crohn's disease. The genes containing
XX  the 2 novel polymorphisms are useful for diagnostic purposes in
XX  inflammatory, malignant or other chronic diseases. The present sequence
XX  represents the human TNF receptor II gene containing the SNP in exon 2.
XX
SQ  Sequence 3683 BP; 780 A; 1098 C; 1087 G; 718 T; 0 other;

Query Match      100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  1 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCTCT 51
    |||||
DB  1650 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCCATGATGTGTCCTCT 1700

RESULT 10
ABK33467
ID  ABK33467 standard; DNA; 3683 BP.
XX
XX  ABK33467;
AC
XX
XX  23-APR-2002 (first entry)
DT
XX
XX  Human TNF receptor II gene with SNP in exon 6.
DE
XX
XX  Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
XX  chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
XX  inflammatory disorder; chronic disease; receptor; gene;
XX  single nucleotide polymorphism; db.
OS
XX  Homo sapiens.
XX
XX  Key      Location/Qualifiers
XX  CDS      90..1475
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XX           /product= "TNF receptor II variant #2"
XX
XX  sig_peptide 90..155
XX           /*tag= b
XX  mat_peptide 156..1472
XX           /*tag= c

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XX	16-JAN-2002.		
PD			
XX	10-JUL-2000; 2000EP-0114786.		
PF			
XX	10-JUL-2000; 2000EP-0114786.		
PR			
XX			
XX	(CONA-1) CONARIS RES INST GMBH.		
PI			
XX	Schreiber S, Hampe J, Mascheretti S;		
DR			
XX	WPI; 2002-156651/21.		
DR			
XX	P-PSDB; AAV75174.		
PT			
XX	Detecting non-responders to anti-human necrosis factor therapy,		
XX	comprises testing an individual for homozygosity for a single		
XX	nucleotide polymorphism in the gene coding for the tumour necrosis		
XX	factor receptor II		
PS			
XX	Claim 16; Page 35-39; 45pp; English.		
CC			
CC	The present invention relates to a method for detecting non-responders		
CC	to anti-tumour necrosis factor (TNF) therapy. The method involves testing		
CC	an individual for homozygosity for at least one single nucleotide		
CC	polymorphism (SNP) in the gene coding for TNF receptor II, which is		
CC	located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168		
CC	A/G) and one in exon 6 (position 587 T/G) which result in lys561ys and		
CC	Met196Arg respectively, are also described. The method of the invention		
CC	is useful for detecting non-responders to anti-TNF therapy such as		
CC	infliximab therapy, or therapy of Crohn's disease. The genes containing		
CC	inflammation, malignant or other chronic diseases. The present sequence		
CC	represents the human TNF receptor II gene containing the SNP in exon 6.		
XX			
XX	Sequence 3683 BP; 780 A; 1098 C; 1088 G; 717 T; 0 other;		
QY			
Db			
QY	1 AGCAGAGCAGCAGATTGGGGAAAGCCTCTGCTGCATGTGTGTCCTCT 51		
1650	AGCAGAGCAGCAGATTGGGGAAAGCCTCTGCTGCATGTGTGTCCTCT 1700		
RESULT 11			
ID	AAAX12093 standard; DNA; 201 BP.		
XX	AAAX12093		
XX	AAAX12093;		
DT	30-MAR-1999 (first entry)		
XX			
DE	Human biallelic polymorphic DNA fragment M32315b.		
XX			
KM	Polymorphism; biallelic; human; forensic; paternity testing; disease;		
KW	detection; phenotypic typing; characteristic; infection; hereditary;		
KW	autoimmune disease; cancer; inflammation; drug; therapy; medication;		
KW	treatment; marker; ss.		
OS	Homo sapiens.		
XX			
XX	WO9820165-A2.		
PN			
XX	14-MAY-1998.		
PD			
XX			
PF	05-NOV-1997; 97WO-US20313.		
XX			

PR	06-NOV-1996;	96US-0030455.
XX	(WHED) WHITEHEAD INST BIOMEDICAL RES.	
XX		
XX	Hudson T, Lander ES, Wang D;	
XX	WPI: 1998-286974/25.	
XX		
XX	New isolated nucleic acid segments from the human genome - used for	
PT	determining polymorphic forms for use in e.g. forensics, paternity	
PT	testing or phenotypic typing for disease	
XX		
PS	Claim 1; Page 219; 310pp; English.	
XX		
CC	AA10269-X12937 are human DNA fragments which contain biallelic	
CC	polymorphic markers which have been isolated using the primers	
CC	represented in AAX09121-X10266. The base occupying the polymorphic site	
CC	is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments	
CC	can be used in methods for determining polymorphic forms in an individual	
CC	for use in e.g. forensics, paternity testing or for phenotypic typing for	
CC	diseases such as agammaglobulinemia, diabetes insipidus, Leisch-Nyhan	
CC	syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,	
CC	familial hypercholesterolemia, polycystic kidney disease, hereditary	
CC	spherocytosis, von Willebrand's disease, tubercous sclerosis, hereditary	
CC	haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos	
CC	Syndrome, osteogenesis imperfecta, acute intermittent porphyria,	
CC	autoimmune diseases, inflammation, cancer, diseases of the nervous	
CC	system, infection by pathogenic microorganisms, and characteristics such	
CC	as longevity, appearance (e.g. baldness, obesity), strength, speed,	
CC	endurance, fertility, and susceptibility or receptivity to particular	
CC	drugs or therapeutic treatments. The isolated polymorphic nucleic acid	
CC	segments can also be used to produce medicaments for the treatment or	
CC	prophylaxis of such diseases.	
XX		
SO	Sequence 201 BP; 32 A; 65 C; 62 G; 41 T; 1 other;	
QY		
Query Match	78.4%; Score 40; DB 19; Length 201;	
Best Local Similarity	100.0%; Pred. No. 1.1e-11;	
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db		
1 AGCAGAGCGACGAGTTGGGGAAGCCTTCGTCCTGCGCATGG 40		
90 AGCAGAGCGACGAGTTGGGGAAGCCTTCGTCCTGCGCATGG 129		
RESULT 12		
AAQ10907		
AAQ10907 standard; cDNA; 2393 BP.		
AC	AAQ10907;	
AC		
DT	25-MAR-2003 (updated)	
DT	13-MAY-1991 (first entry)	
XX		
XX	40KD TNF inhibitor precursor gene in c40DK#6.	
XX		
XX	Tumour necrosis factor; inhibitor; ss.	
OS	Homo sapiens.	
XX		
XX	Key	Location/Qualifiers
FT	CDS	93..1478
FT		/*tag= a
XX		
XX	AN9058976-A.	
XX		
XX	24-JAN-1991.	
XX		
XX	16-JUL-1990;	90AN-0058976.
XX		
XX	07-FEB-1990;	90US-0479661.
PR	18-JUL-1989;	89US-0381080.
PR	11-DEC-1989;	89US-0450329.
XX		

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```

XX (SYND ) SYNERGEN INC.
PA
XX WP1; 1991-073847/11.
DR P-PSDB; AAR11001.
XX
PT Tumour necrosis factor inhibitor - for suppression of TNF-alpha
PT and -beta, useful as therapeutic agent.
XX
PS Disclosure; Fig 39; 142pp; English.
XX
CC The sequence encodes the entire 40 kD TNF inhibitor. The clone from
CC which the sequence was obtd. was isolated from a cDNA library
CC prep'd. from RNA form U937 cells treated with PMA/PMA. The whole
CC gene can be inserted into expression vectors for prep'n. of TNF
CC inhibitor for use in the treatment of inflammatory and degenerative
CC diseases.
CC See also AAQ10878, AAQ10884 and AAQ10883.
CC (Updated on 25-MAR-2003 to correct PA field.)
XX
SQ Sequence 2393 BP; 484 A; 743 C; 738 G; 428 T; 0 other;

Query Match      62.7%; Score 32; DB 12; Length 2393;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51
DB 1671 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 1702

RESULT 13
AAC83951
ID AAC83951 standard; DNA; 2394 BP.
XX
XX AAC83951;
AC
XX 02-MAR-2001 (first entry)
DT
XX
DE Human 40 kDa TNF inhibitor precursor coding sequence.
XX
XX TNF inhibitor; antiinflammatory; Tumour Necrosis Factor; interleukin;
XX IL-1; inflammatory disease; degenerative disease; human; lymphotoxin; ss.
XX
XX Homo sapiens.
XX
XX US6143866-A.
XX
XX 07-NOV-2000.
XX
XX 19-JAN-1995; 95US-0375242.
XX
XX 19-JUL-1990; 90US-0555274.
XX 09-JUL-1993; 93US-0090366.
XX 18-JUL-1989; 89US-0381080.
XX 11-DEC-1989; 89US-0450329.
XX 07-FEB-1990; 90US-0479661.
XX
XX (AMGE-) AMGEN INC.
XX
XX Squires C, King MW, Hale KK, Brewer MT, Thompson RC;
XX Vanderelice RW, Vannice J, Kohno T;
XX
XX WP1; 2001-006443/01.
XX
XX P-PSDB; AAB37686.
XX
XX Novel 30 kDa tumor necrosis factor inhibitor analog comprising a
XX non-native cysteine residue cross-linked with polyethylene glycol,
XX useful for treating inflammatory and degenerative diseases mediated by
XX TNF.
XX
XX Example 12; Fig 39; 82pp; English.
XX

```

```

CC The present invention relates to Tumour Necrosis Factor (TNF) inhibitors
CC (see AAB37676 and AAB37685), which have TNF inhibitory activity. The
CC novel TNF inhibitors of the present invention are useful as therapeutic
CC agents for inhibiting the activity of TNF and interleukin (IL-1), and
CC for treating inflammatory and degenerative diseases mediated by TNF. The
CC present sequence is the coding sequence for the precursor of 40 kDa TNF
CC inhibitor. The 40 kDa TNF inhibitor can inhibit both TNF alpha and beta
CC (lymphotoxin).
XX
SQ Sequence 2394 BP; 484 A; 743 C; 738 G; 428 T; 1 other;

Query Match      62.7%; Score 32; DB 22; Length 2394;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 20 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 51
DB 1672 GGAAGCCTCTGCTGCCATGCTGTCTCTCT 1703

RESULT 14
AAL29880
ID AAL29880 standard; DNA; 51 BP.
XX
XX AAL29880;
AC
XX 24-JAN-2002 (first entry)
DT
XX
DE Human SNP oligonucleotide #3088.
XX
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
XX neutroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
XX amyloid protein; angiotensin; apoptosis related protein; cadherin;
XX cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
XX complement related protein; cytochrome; kinesin; cytokine; interferon;
XX interleukin; G-protein coupled receptor; thioesterase; inflammation;
XX multifactorial disease; autoimmune disease; infection;
XX nervous system disease; ss.
XX
XX Homo sapiens.
XX
XX WO200147944-A2.
XX
XX 05-JUL-2001.
XX
XX 28-DEC-2000; 2000WO-US35498.
XX
XX 28-DEC-1999; 99US-0173419.
XX 27-DEC-2000; 2000US-0173419.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Shimkels RA, Leach M;
XX
XX WP1; 2001-465210/50.
XX
XX
XX Polymorphic nucleic acids encoding e.g. amyloses, cyclins, polymerases,
XX PT oncogenes and histones, useful for diagnosing and treating, e.g.
XX PT cancer, autoimmune diseases and infections -
XX
XX Claim 1; Page 2271; 413pp; English.
XX
XX The present invention relates to oligonucleotides encoding polymorphic
XX variants of proteins related to amyloses, amyloid proteins, angiotensin,
XX apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
XX histones, kinases, colony stimulating factors, complement related
XX proteins, cytochromes, kinesins, cytokines, interferons, interleukins,
XX G-protein coupled receptors and thioesterases. The present sequence is
XX one such oligonucleotide. The oligonucleotides and the peptides encoded
XX by them may be used in the prevention, diagnosis and treatment of
XX diseases associated with inappropriate expression of the proteins listed
XX above. Disorders that may be prevented, diagnosed and/or treated include
XX multifactorial diseases with a genetic component, such as autoimmune
XX

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CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms.

XX Sequence 51 BP; 11 A; 11 C; 20 G; 9 T; 0 other;

Query Match 49.0%; Score 25; DB 22; Length 51;

Best Local Similarity 100.0%; Pred. No. 0.00098; Mismatches 0; Indels 0; Gaps 0;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

20 GGAAGCCTCTGCTGCCATGGTGTG 44

27 GGAAGCCTCTGCTGCCATGGTGTG 51

RESULT 15
ABK3462
ID ABK3462 standard; DNA; 23 BP.

XX ABK3462;

XX 23-APR-2002 (first entry)

XX Human TNF-receptor II 3'UNT nt 1690 (T/C) TET probe (T allele).

XX Human; anti-tumour necrosis factor receptor II; TNF receptor II;
XX TNF receptor I; infliximab therapy; Crohn's disease; malignant disorder;
XX inflammatory disorder; chronic disease; receptor; probe; ss.

XX Homo sapiens.

XX EP1172444-A1.

XX 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX (CONA-) CONARIS RES INST GMBH.

XX Schreiber S, Hampe J, Mascheretti S;

XX WPI; 2002-156651/21.

XX Detecting non-responders to anti-human necrosis factor therapy,

XX comprises testing an individual for homozygosity for a single

XX nucleotide polymorphism in the gene coding for the tumour necrosis

XX factor receptor II

XX Disclosure; Page 8; 45pp; English.

XX The present invention relates to a method for detecting non-responders

XX to anti-tumour necrosis factor (TNF) therapy. The method involves testing

XX an individual for homozygosity for at least one single nucleotide

XX polymorphism (SNP) in the gene coding for TNF receptor II, which is

XX located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168

XX A/G) and one in exon 6 (position 587 T/G) which result in Lys58Lys and

XX Met196Arg respectively, are also described. The method of the invention

XX is useful for detecting non-responders to anti-TNF therapy such as

XX infliximab therapy, or therapy of Crohn's disease. The genes containing

XX CC inflammatory, malignant or other chronic diseases. The present sequence

XX represents a Tagman probe used in the methods of the present invention.

Qy 26 CCTCTGCTGCCATGGTGTGCC 47
DB 1 CCTCTGCTGCCATGGTGTGCC 22

RESULT 16
AAQ10956

ID AAQ10956 standard; DNA; 2339 BP.

XX AAQ10956;

XX 09-JAN-2003 (updated)

XX 24-MAY-1991 (first entry)

XX Encodes human 75KD TNF-binding protein.

XX Tumour Necrosis Factor; binding proteins; septic shock;

XX autoimmune glomerulonephritis; lymphokine; cytokine.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 1..1179

XX /*tag= a

XX /product= 75KD TNF-BP

XX EP117563-A.

XX 31-AUG-1990; 90EP-0116707.

XX 20-APR-1990; 90CH-0001347.

XX 12-SEP-1989; 89CH-0003319.

XX 08-MAR-1990; 90CH-0000746.

XX (HOFF) HOFFMANN-LA ROCHE AG.

XX Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Lotzner H;

XX Schlaeger EJ;

XX WPI; 1991-081851/12.

XX P-PSDB; AAR11605.

XX Insoluble tumour necrosis factor binding proteins - and DNA

XX encoding them, useful in pharmaceutical prods. and for antibody

XX prodn.

XX Claim 4; Fig 1; 26pp; German.

XX Partial amino acid sequences were determined for the 55 and 75KD

XX TNF-BPs (see AAR11072-R11081) and oligonucleotide primers were

XX synthesised based on these partial sequences. The primers were used

XX to produce a cDNA fragment for use as a probe to screen a human

XX placental cDNA bank constructed in lambda gt11. Positive clones were

XX identified and sequenced. Repeated sequencing showed a discrepancy

XX at position 7 such that the third codon encodes either Thr or Ser.

XX DNA constructs comprising the TNF-BP coding sequence may also

XX contain a fragment encoding a human Ig domain. Recombinant

XX constructs are used to transform cells to confer improved TNF-

XX binding properties.

XX See also AAQ10955.

XX (Updated on 09-JAN-2003 to add missing OS field.)

XX Sequence 2339 BP; 494 A; 720 C; 685 G; 439 T; 1 other;

Query Match 41.2%; Score 21; DB 12; Length 2339;

Best Local Similarity 100.0%; Pred. No. 0.12; Mismatches 21; Conservative 0; Indels 0; Gaps 0;

Matches 21; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

20 GGAAGCCTCTGCTGCCATGG 40

1372 GGAAGCCTCTGCTGCCATGG 1392

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RESULT 17
AAZ09171
ID AAZ09171 standard; cDNA; 2339 BP.
XX
AC AAZ09171;
XX
DT 20-MAR-2003 (updated)
DT 18-OCT-1999 (first entry)
XX
DE Human tumour necrosis factor binding protein cDNA fragment.
XX
KM Tumour necrosis factor binding protein; TNF; insoluble protein; agonist;
KM anti-inflammatory; antimalarial; treatment; septic shock; inflammation;
KM autoimmune glomerulonephritis; cerebral malaria; immune response;
KM antagonist; diagnosis; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1179
FT /tag= a
FT /product= "TNF binding protein"
FT /note= "Partial sequence, no start codon given"
XX
PN EP939121-A2.
XX
PD 01-SEP-1999.
XX
PF 31-AUG-1990; 99EP-0100703.
XX
PR 12-SEP-1989; 89CH-0003319.
PR 08-MAR-1990; 90CH-0000746.
PR 20-APR-1990; 90CH-0001347.
PR 31-AUG-1990; 90EP-0116707.
XX
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
PI Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;
PI Schlaeger E;
XX
DR WPI; 1999-480840/41.
DR P-PSDB; AAY30935.
XX
PT New insoluble proteins, and fragments, that bind to tumor necrosis
PT factor, used to treat e.g. septic shock or cerebral malaria
XX
PS Claim 4a; Fig 4; 25pp; German.
XX
CC This invention describes novel homogeneous insoluble proteins (I),
CC their (in)soluble fragments (Ia) and their salts that can bind tumour
CC necrosis factor (TNF). The products of the invention have
CC anti-inflammatory and antimalarial activity. (I) and (Ia) are used (i)
CC to treat diseases in which TNF is involved (e.g. septic shock, autoimmune
CC glomerulonephritis, cerebral malaria, immune responses and inflammation),
CC (ii) to purify TNF, (iii) to identify TNF (ant)agonists and (iv) for
CC diagnostic determination of TNF in body fluids. Antibodies raised against
CC (I) are used for affinity purification of (I). This sequence encodes
CC a tumour necrosis factor binding protein fragment described in the method
CC of the invention.
CC (Updated on 20-MAR-2003 to correct PF field.)
CC (Updated on 20-MAR-2003 to correct PR field.)
XX
SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
XX
Query Match 41.2%; Score 21; DB 20; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 20 GGAAGCCTCTGCTGCATGG 40
Db 1372 GGAAGCCTCTGCTGCATGG 1392
```

```
RESULT 18
AAH48860
ID AAH48860 standard; DNA; 2339 BP.
XX
AC AAH48860;
XX
DT 12-NOV-2001 (first entry)
DT
XX
DE Human TNFBP-associated DNA #2.
XX
KM TNF; tumor necrosis factor binding protein; TNFBP; treatment;
KM insoluble protein; anti-inflammatory; immunosuppressive; antibacterial;
KM antiprotozoal; treatment; meningococcal sepsis; cerebral malaria;
KM autoimmune glomerulonephritis; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1179
FT /tag= a
FT /product= "TNFBP-associated protein"
XX
PN EP132471-A2.
XX
PD 12-SEP-2001.
XX
PF 31-AUG-1990; 2001EP-0108117.
XX
PR 12-SEP-1989; 89CH-0003319.
PR 08-MAR-1990; 90CH-0000746.
PR 20-APR-1990; 90CH-0001347.
PR 31-AUG-1990; 90EP-0116707.
PR 31-AUG-1990; 99EP-0100703.
XX
PA (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
PI Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Loetscher H;
PI Schlaeger E;
XX
DR WPI; 2001-559312/63.
DR P-PSDB; AAB86818.
XX
PT New homogeneous, insoluble proteins that bind tumor necrosis factor
PT (TNF), useful for treating TNF-mediated disorders, e.g. inflammation
XX
PS Claim 4a; Fig 4; 26pp; German.
XX
CC This invention describes novel insoluble proteins (I), also their
CC (in)soluble fragments and pharmaceutically acceptable salts, able to bind
CC tumor necrosis factor (TNF) and in homogeneous form. The products of the
CC invention have antiinflammatory, immunosuppressive, antibacterial,
CC antiprotozoal activity. (I), and related recombinant proteins, are used
CC to treat diseases mediated by TNF, e.g. shock in cases of meningococcal
CC sepsis; development of autoimmune glomerulonephritis and cerebral
CC malaria. Also (I), or antibodies specific for them, are used for
CC diagnostic determination of TNF in body fluids, for affinity purification
CC of TNF and for identifying (ant)agonists of TNF. This sequence encodes a
CC human TNF binding protein described in the method of the invention.
XX
SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
XX
Query Match 41.2%; Score 21; DB 22; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 20 GGAAGCCTCTGCTGCATGG 40
Db 1372 GGAAGCCTCTGCTGCATGG 1392
```

RESULT 19

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AB074767
ID AB074767 standard; DNA; 15602 BP.
XX
AC AB074767;
XX
DT 24-OCT-2002 (first entry)
XX
DE Human TNFR2 partial genomic sequence SEQ ID NO:17.
XX
KM Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;
XX gene; ds.
XX
OS Homo sapiens.
XX
PN US6410324-B1.
XX
PD 25-JUN-2002.
XX
PF 27-APR-2001; 2001US-0844634.
XX
PR 27-APR-2001; 2001US-0844634.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Bennett CF, Walt AT;
XX
PI WPI; 2002-606814/65.
XX
DR
XX
PT New compound antisense to nucleic acid encoding human or mouse tumor
PT necrosis factor receptor 2 are useful to treat disease associated with
PT mouse tumor necrosis factor receptor 2 expression
XX
PS Claim 1; Column 67-80; 69pp; English.
XX
CC The present invention describes compounds of 8-30 nucleobases antisense
CC to a nucleic acid encoding human or mouse tumor necrosis factor
CC receptor 2 (TNFR2). Also described is a method for inhibiting expression
CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro
CC with one of the claimed compounds. The antisense compounds are used to
CC treat a disease or condition associated with expression of TNFR2. The
CC present sequence represents a partial genomic sequence of human TNFR2,
CC which is used in an example from the present invention.
XX
SQ Sequence 15602 BP; 3439 A; 4290 C; 4227 G; 3646 T; 0 other;

Query Match 41.2%; Score 21; DB 24; Length 15602;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
|||
Db 11202 GGAAGCCTCTGCTGCCATGG 11222

```

Search completed: December 16, 2003, 19:45:04
 Job time : 145 secs

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;
; APPLICANT: WALLACH, David
; BIGDA, Jack
; BELETISKY, Igor
; METT, Igor
;
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,908
; FILING DATE: 08-Mar-2001
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,347
; FILING DATE: <Unknown>
; APPLICATION NUMBER: IL 106271
; FILING DATE: 08-JUL-1993
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, G. Kevin
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: WALLACH=10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
;
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2
;
Query Match 100.0%; Score 51; DB 10; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCGACGAGTGGGGAAAGCCTGCTGCCATGCTGTCCCTCT 51
Db 1650 AGCAGAGCGACGAGTGGGGAAAGCCTGCTGCCATGCTGTCCCTCT 1700

RESULT 3
US-10-101-510-675
; Sequence 675, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; PRIOR FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 675
```

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;
; LENGTH: 2613
; TYPE: DNA
; ORGANISM: Homo sapiens
;
; US-10-101-510-675
;
Query Match 100.0%; Score 51; DB 13; Length 2613;
Best Local Similarity 100.0%; Pred. No. 6.7e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCGACGAGTGGGGAAAGCCTGCTGCCATGCTGTCCCTCT 51
Db 580 AGCAGAGCGACGAGTGGGGAAAGCCTGCTGCCATGCTGTCCCTCT 630

RESULT 4
US-09-954-456-1187
; Sequence 1187, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using C
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1187
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
;
US-09-954-456-1187
;
Query Match 100.0%; Score 51; DB 10; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGCAGAGCGACGAGTGGGGAAAGCCTGCTGCCATGCTGTCCCTCT 51
Db 1650 AGCAGAGCGACGAGTGGGGAAAGCCTGCTGCCATGCTGTCCCTCT 1700

RESULT 5
US-09-902-176A-49
; Sequence 49, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Haepfe, Jochen
; APPLICANT: Maecherelli, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
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; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902.176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (156)
US-09-902-176A-49
```

```
Query Match          100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 1700
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RESULT 6
US-09-902-176A-51
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; Sequence 51, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902.176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (156)
US-09-902-176A-51
```

```
Query Match          100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 1700
```

```
RESULT 7
US-09-902-176A-53
; Sequence 53, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
```

```
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902.176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 53
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)..(1475)
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: (156)
US-09-902-176A-53
```

```
Query Match          100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 1700
```

```
RESULT 8
US-10-101-510-22
; Sequence 22, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: MAN, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101,510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-22
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Query Match          100.0%; Score 51; DB 13; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 51
Db 1650 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGCTGCTGCCATGATGTGTCCCTCT 1700
```

```
RESULT 9
US-09-902-176A-46
; Sequence 46, Application US/09902176A
; Publication No. US20030099943A1
; GENERAL INFORMATION:
; APPLICANT: Schreiber, Stefan
; APPLICANT: Hampe, Jochen
; APPLICANT: Mascheretti, Silvia
; TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
; TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
```

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; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-P001US
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: TET Probe#
US-09-902-176A-46

```

```

Query Match      43.1%; Score 22; DB 11; Length 23;
Best Local Similarity 100.0%; Pred.No. 0.043;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      26 CCTGTGCTGCCATGGTGTGTC 47
      |||
Db      1 CCTGTGCTGCCATGGTGTGTC 22

```

```

RESULT 10
US-10-207-655-191
; Sequence 191, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 191
; LENGTH: 3492
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-207-655-191

```

```

Query Match      41.2%; Score 21; DB 15; Length 3492;
Best Local Similarity 100.0%; Pred.No. 0.063;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      20 GGAAAGCCTGTGTCGCATGG 40
      |||
Db      1472 GGAAAGCCTGTGTCGCATGG 1492

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Search completed: December 16, 2003, 21:05:26
Job time : 150 secs

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107267
; FILING DATE: 12-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-08-476-862-1

Query Match          100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCGAGTTGGGGAAGCCCTCTGCTGCATGTCGTGTCCTCT 51
DB      1650 AGCAGAGCAGCGAGTTGGGGAAGCCCTCTGCTGCATGTCGTGTCCTCT 1700

RESULT 3
US-09-800-909-1
; Sequence 1, Application US/09800909
; Patent No. 6555111
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
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; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-09-800-909-1

Query Match          100.0%; Score 51; DB 4; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCGAGTTGGGGAAGCCCTCTGCTGCATGTCGTGTCCTCT 51
DB      1650 AGCAGAGCAGCGAGTTGGGGAAGCCCTCTGCTGCATGTCGTGTCCTCT 1700

RESULT 4
US-09-844-634-3
; Sequence 3, Application US/09844634
; Patent No. 6410324
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRES
; FILE REFERENCE: RTS-0216
; CURRENT APPLICATION NUMBER: US/09/844,634
; CURRENT FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 174
; SEQ ID NO 3
; LENGTH: 3683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (90)...(1475)
; US-09-844-634-3

Query Match          100.0%; Score 51; DB 4; Length 3683;
Best Local Similarity 100.0%; Pred. No. 2.5e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AGCAGAGCAGCGAGTTGGGGAAGCCCTCTGCTGCATGTCGTGTCCTCT 51
DB      1650 AGCAGAGCAGCGAGTTGGGGAAGCCCTCTGCTGCATGTCGTGTCCTCT 1700

RESULT 5
US-09-844-634-17
; Sequence 17, Application US/09844634
; Patent No. 6410324
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRES
```

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; FILE REFERENCE: RTS-0216
; CURRENT APPLICATION NUMBER: US/09/844,634
; CURRENT FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 174
; SEQ ID NO 17
; LENGTH: 15602
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-844-634-17

Query Match 41.2%; Score 21; DB 4; Length 15602;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGG 40
|||
Db 11202 GGAAGCCTCTGCTGCCATGG 11222

Search completed: December 16, 2003, 20:28:33
Job time : 45 secs

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Query Match	100.0%	Score 51	DB 16	Length 2224
Best Local Similarity	100.0%	Pred. NO. 1.7e-17		
Matches 51	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Query Match	Score	DB	Length
100.0%	51	DB 21	2613
<p> RESULT 2 AAA49207 AAA49207 standard; DNA; 2613 BP. AAA49207; 22-NOV-2000 (first entry) Human tumour necrosis factor alpha receptor 2 gene exon 10. Human; tumour necrosis factor alpha receptor 2; TNFR2; polymorphism; osteoporosis; ds. Homo sapiens. Key CDS Location/Qualifiers 1..2613 /*tag= a /product= "TNFR2" /partial replace (593,A), (598,G), (620,T) /*tag= b /label= allele_1 replace (593,A), (598,T), (620,T) /*tag= c /label= allele_2 replace (593,G), (598,T), (620,C) /*tag= d /label= allele_3 replace (593,G), (598,T), (620,T) /*tag= e /label= allele_4 replace (593,A), (598,T), (620,C) /*tag= f /label= allele_5 WO200032826-A1. 08-JUN-2000. 30-NOV-1999; 99WO-US28403. 30-NOV-1998; 98US-0110268. (UYDR-) UNIV DREXEL. Spot14 ID; WPI; 2000-412362/35. Identifying individuals at risk of developing osteoporosis comprises assessing the genotype of a tumor necrosis factor-alpha 2 receptor gene in a DNA sample from an individual - Claim 2; Page 17-18; 21pp; English. The present sequence comprises exon 10 of the human tumour necrosis factor alpha receptor 2 (TNFR2) gene. The sequence contains three polymorphic sites. By determining the genotype of an individual it is possible to identify those at risk of osteoporosis, which is characterised by low bone density and fragile bones, later in life. Those at greatest risk are those who possess allele 1, which is the rarest allele. This is particularly useful as many cases of osteoporosis go undetected at present. Sequence 2613 BP; 553 A; 750 C; 742 G; 568 T; 0 other. </p>			

Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGTGGGAAAGCCTCTGCTGCATGCTGTCCTCT 51
DB 1650 AGCAGAGGACGAGTGGGAAAGCCTCTGCTGCATGCTGTCCTCT 1700

RESULT 5
ABQ74753
ID ABQ74753 standard; cDNA; 3683 BP.

AC ABQ74753;

DT 24-OCT-2002 (first entry)

DE Human tumour necrosis factor receptor 2 encoding cDNA SEQ ID NO:3.

KM Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;

KW gene; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 90..1475

FT /*tag= a

FT /product= "tumour necrosis factor receptor 2"

PN US6410324-B1.

PD 25-JUN-2002.

PF 27-APR-2001; 2001US-0844634.

PR 27-APR-2001; 2001US-0844634.

PA (ISIS-) ISIS PHARM INC.

PI Bennett CF, Walt AT;

DR WPI; 2002-606814/65.

XX P-PSDB; ABP52451.

PT New compounds antisense to nucleic acid encoding human or mouse tumor

PT necrosis factor receptor 2 are useful to treat disease associated with

PT mouse tumor necrosis factor receptor 2 expression -

XX Claim 1; Column 53-58; 69pp; English.

XX The present invention describes compounds of 8-30 nucleobases antisense

CC to a nucleic acid encoding human or mouse tumour necrosis factor

CC receptor 2 (TNFR2). Also described is a method for inhibiting expression

CC of human or mouse TNFR2 comprising contacting cells or tissues in vitro

CC with one of the claimed compounds. The antisense compounds are used to

CC treat a disease or condition associated with expression of TNFR2. The

CC present sequence encodes human TNFR2, which is used in an example from

CC the present invention.

XX Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;

XX Query Match 100.0%; Score 51; DB 24; Length 3683;

XX Best Local Similarity 100.0%; Pred. No. 1.7e-17;

XX Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGGACGAGTGGGAAAGCCTCTGCTGCATGCTGTCCTCT 51

DB 1650 AGCAGAGGACGAGTGGGAAAGCCTCTGCTGCATGCTGTCCTCT 1700

RESULT 6

ABK83997

ID ABK83997 standard; cDNA; 3683 BP.

AC ABK83997;

DT 14-AUG-2002 (first entry)

DE Human cDNA differentially expressed in granulocytic cells #568.

KW Human; ss; granulocytic cell; DNA chip; bacterial infection;

KW viral infection; parasitic infection; protozoal infection;

KW fungal infection; sterile inflammatory disease; psoriasis;

KW rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;

KW cardiac reperfusion injury; renal reperfusion injury; AIDS;

KW adult respiratory distress syndrome; inflammatory bowel disease;

KW Crohn's disease; ulcerative colitis; periodontal disease;

KW granulocyte activation; chronic inflammation; allergy.

OS Homo sapiens.

PN WO200228999-A2.

PD 11-APR-2002.

PF 03-OCT-2001; 2001WO-US30821.

PR 03-OCT-2000; 2000US-237189P.

PA (GENE-) GENE LOGIC INC.

PI Beazer-Barclay Y, Weisman SM, Yamaga S, Vockley J;

DR WPI; 2002-435328/46.

PT Detecting granulocyte activation by detecting differential expression

PT of genes associated with granulocyte activation, which serves as

PT diagnostic markers that is useful for monitoring disease states and

PT drug toxicity -

XX Claim 1; SEQ ID No 568; 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation

CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by

CC DNA chip analysis as given in the specification, and comparing

CC the expression level to an expression level in an unactivated

CC GC, where differential expression of Gs is indicative of GCA.

CC Also included are modulating (M2) GA by contacting GC with an agent

CC that alters the expression of at least one gene in Gs; (2) screening (M3)

CC for an agent capable of modulating GCA or an inflammation (especially

CC chronic) in a tissue, an allergic response in a subject, exposure of a

CC subject to a pathogen or sterile inflammatory disease using the

CC gene expression profile; (3) detecting (M4) an inflammation (especially

CC chronic) in a tissue, an allergic response in a subject, exposure of a

CC subject to a pathogen or sterile inflammatory disease, by detecting the

CC level of expression in a sample of the tissue of gene(s) from Gs, where

CC (4) treating (M5) an inflammation (especially chronic) or in a tissue,

CC or allergic inflammatory disease, by contacting a tissue having

CC inflammation with an agent that modulates the expression of gene(s)

CC from Gs in the tissue. M1 is useful for detecting GCA, M2 is useful for

CC modulating GA; M3 is useful for screening an agent capable of modulating

CC GCA preferably in an inflammation in a tissue; M4 is useful for

CC detecting an inflammation (especially chronic) in a tissue, an allergic

CC response in a subject, exposure of a subject to a pathogen or sterile

CC inflammatory disease (e.g. psoriasis, rheumatoid arthritis,

CC glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal

CC reperfusion injury, AIDS, adult respiratory distress syndrome,

CC inflammatory bowel disease, Crohn's disease, ulcerative colitis,

CC periodontal disease, also bacterial infection, viral infection,

CC parasitic infection, protozoal infection, fungal infection and M5 is

CC useful for treating one of the above conditions. The present

CC sequence represents a gene differentially expressed in granulocytes.

CC Note: The sequence data for this patent did not form part

CC of the printed specification, but was obtained in electronic

CC format directly from WIPO at


```

CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 1700

RESULT 7
AB165877
ID ABL65877 standard; DNA; 3683 BP.
XX
AC ABL65877;
XX
DT 15-MAY-2002 (first entry)
XX
DE Lung cancer related gene sequence SEQ ID NO:4214.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilms tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
XX WO200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US10838.
XX
PR 05-JUN-2000; 2000US-209473P.
PR 05-JUN-2000; 2000US-209511P.
PR 18-SEP-2000; 2000US-233133P.
PR 18-SEP-2000; 2000US-233617P.
PR 20-SEP-2000; 2000US-234009P.
PR 20-SEP-2000; 2000US-234034P.
PR 20-SEP-2000; 2000US-234052P.
PR 22-SEP-2000; 2000US-234509P.
PR 22-SEP-2000; 2000US-234567P.
PR 25-SEP-2000; 2000US-234923P.
PR 25-SEP-2000; 2000US-234924P.
PR 25-SEP-2000; 2000US-235077P.
PR 25-SEP-2000; 2000US-235082P.
PR 25-SEP-2000; 2000US-235134P.
PR 25-SEP-2000; 2000US-235280P.
PR 26-SEP-2000; 2000US-235637P.
PR 26-SEP-2000; 2000US-235638P.
PR 27-SEP-2000; 2000US-235711P.
PR 27-SEP-2000; 2000US-235720P.
PR 27-SEP-2000; 2000US-235840P.
PR 27-SEP-2000; 2000US-235863P.
PR 28-SEP-2000; 2000US-236028P.
PR 28-SEP-2000; 2000US-236032P.
PR 28-SEP-2000; 2000US-236033P.
PR 28-SEP-2000; 2000US-236034P.
PR 28-SEP-2000; 2000US-236109P.
PR 28-SEP-2000; 2000US-236111P.
PR 29-SEP-2000; 2000US-236842P.
PR 29-SEP-2000; 2000US-236891P.
PR 02-OCT-2000; 2000US-237112P.
PR 02-OCT-2000; 2000US-237113P.
PR 02-OCT-2000; 2000US-237278P.
PR 02-OCT-2000; 2000US-237294P.
PR 02-OCT-2000; 2000US-237295P.
PR 02-OCT-2000; 2000US-237316P.
PR 03-OCT-2000; 2000US-237425P.
PR 03-OCT-2000; 2000US-237598P.

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PR 03-OCT-2000; 2000US-237604P.
PR 03-OCT-2000; 2000US-237606P.
PR 03-OCT-2000; 2000US-237608P.
PR 01-NOV-2000; 2000US-244867P.
PR 01-NOV-2000; 2000US-245084P.
XX
PA (AVAL-) AVALON PHARM.
XX
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
PI Soppet DR, Weaver Z;
XX
DR WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a
PT chemical agent to be tested for anti-neoplastic activity, and
PT determining a change in expression of a gene of a signature gene set
XX
PS Claim 1; SEQ ID 4214; 44pp; English.
XX
CC The present invention describes a method (M1) for screening for an
CC anti-neoplastic agent. The method involves exposing cells to a chemical
CC agent to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (I) of a signature gene set, where (I)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL6164
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening
CC an anti-neoplastic agent, and can be used for producing a product which
CC is the data collected with respect to the anti-neoplastic agent as a
CC result of M1, and the data is sufficient to convey the chemical
CC structure and/or properties of the agent. M1 can be used in the
CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC oesophageal, ovarian, kidney, prostate or pancreatic cancer.
CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
CC carcinoma, papillary carcinoma and Wilms tumour.
XX
SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
Query Match 100.0%; Score 51; DB 24; Length 3683;
Best Local Similarity 100.0%; Pred. No. 1.7e-17;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 51
DB 1650 AGCAGAGCGAGCGAGTTGGGAAAGCCTCTGCTGCATGATGTGTCCTCT 1700

RESULT 8
ABK33465
ID ABK33465 standard; DNA; 3683 BP.
XX
AC ABK33465;
XX
DT 23-APR-2002 (first entry)
XX
DE Human TNF receptor II gene.
XX
KW Human; anti-tumour necrosis factor receptor II; TNF receptor II;
KW chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
KW inflammatory disorder; chronic disease; receptor; gene; ds.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 90..1475
XX FT /*tag= a
XX FT /product= "TNF receptor II"
XX FT sig_peptide 90..155
XX FT /*tag= b
XX FT mat_peptide 156..1472
XX FT /*tag= c

```

PN EP1172444-A1.
 XX
 PD 16-JAN-2002.
 XX
 PF 10-JUL-2000; 2000EP-0114786.
 XX
 PR 10-JUL-2000; 2000EP-0114786.
 XX
 PA (CONA-) CONARIS RES INST GMBH.
 XX
 PI Schreiber S, Hampe U, Mascheretti S;
 DR WPI; 2002-156651/21.
 DR P-PSDB; AAU75172.
 XX
 PT Detecting non-responders to anti-human necrosis factor therapy,
 PT comprises testing an individual for homozygosity for a single
 PT nucleotide polymorphism in the gene coding for the tumour necrosis
 PT factor receptor II -
 XX
 PS Disclosure; Page 23-27; 45pp; English.
 XX
 CC The present invention relates to a method for detecting non-responders
 CC to anti-tumour necrosis factor (TNF) therapy. The method involves testing
 CC an individual for homozygosity for at least one single nucleotide
 CC polymorphism (SNP) in the gene coding for TNF receptor II, which is
 CC located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
 CC A/G) and one in exon 6 (position 587 T/G) which result in lys561ys and
 CC Met196Arg respectively, are also described. The method of the invention
 CC is useful for detecting non-responders to anti-TNF therapy such as
 CC infliximab therapy, or therapy of Crohn's disease. The genes containing
 CC the 2 novel polymorphisms are useful for diagnostic purposes in
 CC inflammatory, malignant or other chronic diseases. The present sequence
 CC encodes for human TNF receptor II.
 XX
 SQ Sequence 3683 BP; 781 A; 1098 C; 1086 G; 718 T; 0 other;
 XX
 Query Match 100.0%; Score 51; DB 24; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 1.7e-17;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 51
 Db 1650 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 1700
 RESULT 9
 ABR33466
 ID ABR33466 standard; DNA; 3683 BP.
 AC ABR33466;
 XX
 DT 23-APR-2002 (first entry)
 XX
 DE Human TNF receptor II gene with SNP in exon 2.
 XX
 KM Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
 KM chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
 KM inflammatory disorder; chronic disease; receptor; gene;
 KM single nucleotide polymorphism; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 90..1475
 FT /*tag= a
 FT /product= "TNF receptor II variant #1"
 FT sig_peptide /*tag= b
 FT mat_peptide 156..1472
 FT /*tag= c
 FT replace (257, A)
 FT /*tag= d

FT EP1172444-A1.
 XX
 PD 16-JAN-2002.
 XX
 PF 10-JUL-2000; 2000EP-0114786.
 XX
 PR 10-JUL-2000; 2000EP-0114786.
 XX
 PA (CONA-) CONARIS RES INST GMBH.
 XX
 PI Schreiber S, Hampe U, Mascheretti S;
 DR WPI; 2002-156651/21.
 DR P-PSDB; AAU75173.
 XX
 PT Detecting non-responders to anti-human necrosis factor therapy,
 PT comprises testing an individual for homozygosity for a single
 PT nucleotide polymorphism in the gene coding for the tumour necrosis
 PT factor receptor II -
 XX
 PS Claim 15; Page 29-33; 45pp; English.
 XX
 CC The present invention relates to a method for detecting non-responders
 CC to anti-tumour necrosis factor (TNF) therapy. The method involves testing
 CC an individual for homozygosity for at least one single nucleotide
 CC polymorphism (SNP) in the gene coding for TNF receptor II, which is
 CC located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
 CC A/G) and one in exon 6 (position 587 T/G) which result in lys561ys and
 CC Met196Arg respectively, are also described. The method of the invention
 CC is useful for detecting non-responders to anti-TNF therapy such as
 CC infliximab therapy, or therapy of Crohn's disease. The genes containing
 CC the 2 novel polymorphisms are useful for diagnostic purposes in
 CC inflammatory, malignant or other chronic diseases. The present sequence
 CC represents the human TNF receptor II gene containing the SNP in exon 2.
 XX
 SQ Sequence 3683 BP; 780 A; 1098 C; 1087 G; 718 T; 0 other;
 XX
 Query Match 100.0%; Score 51; DB 24; Length 3683;
 Best Local Similarity 100.0%; Pred. No. 1.7e-17;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 51
 Db 1650 AGCAGAGGCGAGCGAGTTGGGGAAGCCTGTGTCGCATGATGTGTCCTCT 1700
 RESULT 10
 ABR33467
 ID ABR33467 standard; DNA; 3683 BP.
 AC ABR33467;
 XX
 DT 23-APR-2002 (first entry)
 XX
 DE Human TNF receptor II gene with SNP in exon 6.
 XX
 KM Human; anti-tumour necrosis factor receptor II; TNF receptor II; SNP;
 KM chromosome 1p36; infliximab therapy; Crohn's disease; malignant disorder;
 KM inflammatory disorder; chronic disease; receptor; gene;
 KM single nucleotide polymorphism; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 90..1475
 FT /*tag= a
 FT /product= "TNF receptor II variant #2"
 FT sig_peptide /*tag= b
 FT mat_peptide 156..1472
 FT /*tag= c

```
FT variation replace (676, T)
FT /*tag= d
FT /standard_name= "single nucleotide polymorphism"
XX
XX EP1172444-A1.
XX
XX 16-JAN-2002.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX 10-JUL-2000; 2000EP-0114786.
XX
XX (CONA-) CONARIS RES INST GMEH.
XX
XX Schreiber S, Hampe J, Mascheretti S;
XX
XX WPI; 2002-156651/21.
XX
XX P-PSDB; AAU75174.
XX
XX Detecting non-responders to anti-human necrosis factor therapy,
XX completes testing an individual for homozygosity for a single
XX nucleotide polymorphism in the gene coding for the tumour necrosis
XX factor receptor II -
XX
XX Claim 16; Page 35-39; 45pp; English.
XX
XX The present invention relates to a method for detecting non-responders
XX to anti-tumour necrosis factor (TNF) therapy. The method involves testing
XX an individual for homozygosity for at least one single nucleotide
XX polymorphism (SNP) in the gene coding for TNF receptor II, which is
XX located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
XX A/G) and one in exon 6 (position 587 T/G) which result in lys66lys and
XX Met196Arg respectively, are also described. The method of the invention
XX is useful for detecting non-responders to anti-TNF therapy such as
XX infliximab therapy, or therapy of Crohn's disease. The genes containing
XX the 2 novel polymorphisms are useful for diagnostic purposes in
XX inflammatory, malignant or other chronic diseases. The present sequence
XX represents the human TNF receptor II gene containing the SNP in exon 6.
XX
XX Sequence 3683 BP; 780 A; 1098 C; 1088 G; 717 T; 0 other;
XX
XX Query Match 100.0%; Score 51; DB 24; Length 3683;
XX Best Local Similarity 100.0%; Pred. No. 1.7e-17;
XX Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGCTGTGCTCCCTCT 51
XX |||||
XX Db 1650 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGCTGTGCTCCCTCT 1700
XX
XX RESULT 11
XX AAX12093
XX ID AAX12093 standard; DNA; 201 BP.
XX
XX AAX12093;
XX
XX 30-MAR-1999 (first entry)
XX
XX Human biallelic polymorphic DNA fragment M32315B.
XX
XX Polymorphism; biallelic; human; forensic; paternity testing; disease;
XX detection; phenotypic typing; characteristic; infection; hereditary;
XX autoimmune disease; cancer; inflammation; drug; therapy; medicament;
XX treatment; marker; ss.
XX
XX Homo sapiens.
XX
XX WO9820165-A2.
XX
XX 14-MAY-1998.
XX
XX 05-NOV-1997; 97WO-US20313.
XX
```

```
PR 06-NOV-1996; 96US-0030455.
XX
XX (WHEED ) WHITEHEAD INST BIOMEDICAL RES.
XX
XX Hudson T, Lander ES, Wang D;
XX
XX WPI; 1998-286974/25.
XX
XX New isolated nucleic acid segments from the human genome - used for
XX determining polymorphic forms for use in e.g. forensics, paternity
XX testing or phenotypic typing for disease
XX
XX Claim 1; Page 219; 310pp; English.
XX
XX AAX10269-X12937 are human DNA fragments which contain biallelic
XX polymorphic markers which have been isolated using the primers
XX represented in AAX09121-X10268. The base occupying the polymorphic site
XX is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments
XX can be used in methods for determining polymorphic forms in an individual
XX for use in e.g. forensics, paternity testing or for phenotypic typing for
XX diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan
XX syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,
XX familial hypercholesterolemia, polycystic kidney disease, hereditary
XX spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary
XX haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos
XX syndrome, osteogenesis imperfecta, acute intermittent porphyria,
XX autoimmune diseases, inflammation, cancer, diseases of the nervous
XX system, infection by pathogenic microorganisms, and characteristics such
XX as longevity, appearance (e.g. baldness, obesity), strength, speed,
XX endurance, fertility, and susceptibility or receptivity to particular
XX drugs or therapeutic treatments. The isolated polymorphic nucleic acid
XX segments can also be used to produce medicaments for the treatment or
XX prophylaxis of such diseases.
XX
XX Sequence 201 BP; 32 A; 65 C; 62 G; 41 T; 1 other;
XX
XX Query Match 78.4%; Score 40; DB 19; Length 201;
XX Best Local Similarity 100.0%; Pred. No. 1.1e-11;
XX Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGG 40
XX |||||
XX Db 90 AGCAGAGGCGAGGAGTTGGGGAAGCCTCTGCTGCATGG 129
XX
XX RESULT 12
XX AAQ10907
XX ID AAQ10907 standard; cDNA; 2393 BP.
XX
XX AAQ10907;
XX
XX 25-MAR-2003 (updated)
XX
XX 13-MAY-1991 (first entry)
XX
XX 40KD TNF inhibitor precursor gene in c40DK#6.
XX
XX Tumour necrosis factor; inhibitor; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 93..1478
XX FT /*tag= a
XX
XX AU9058976-A.
XX
XX 24-JAN-1991.
XX
XX 16-JUL-1990; 90AU-0058976.
XX
XX 07-FEB-1990; 90US-0479661.
XX
XX 18-JUL-1989; 89US-0381080.
XX
XX 11-DEC-1989; 89US-0450329.
XX
```

```

XX (SYND ) SYNERGEN INC.
PA
XX
XX
DR WPI, 1991-073847/11.
DR P-PSDB; AAK11001.
XX
PT Tumour necrosis factor inhibitor - for suppression of TNF-alpha
PT and -beta, useful as therapeutic agent.
XX
XX
PS Disclosure; Fig 39; 142pp; English.
XX
XX The sequence encodes the entire 40 kD TNF inhibitor. The clone from
CC which the sequence was obtcd. was isolated from a cDNA library
CC prep'd. from RNA form U937 cells treated with PM/PHA. The whole
CC gene can be inserted into expression vectors for prep'n. of TNF
CC inhibitor for use in the treatment of inflammatory and degenerative
CC diseases.
CC See also AAQ10878, AAQ10884 and AAQ10883.
CC (Updated on 25-MAR-2003 to correct PA field.)
XX
SQ Sequence 2393 BP; 484 A; 743 C; 738 G; 428 T; 0 other;

Query Match      62.7%; Score 32; DB 12; Length 2393;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCATGCTGTCCCTCT 51
DB 1671 GGAAAGCCTCTGCTGCATGCTGTCCCTCT 1702

RESULT 13
AAC83951
ID AAC83951 standard; DNA; 2394 BP.
XX
XX AAC83951;
AC
XX
XX 02-MAR-2001 (first entry)
DT
XX
DE Human 40 kDa TNF inhibitor precursor coding sequence.
XX
XX TNF inhibitor; antiinflammatory; Tumour Necrosis Factor; interleukin;
KW IL-1; inflammatory disease; degenerative disease; human; lymphotoxin; ss.
XX
OS Homo sapiens.
XX
XX US6143866-A.
PN
XX
XX 07-NOV-2000.
PD
XX
XX 19-JAN-1995; 95US-0375242.
PF
XX 19-JUL-1990; 90US-0555274.
PR 09-JUL-1993; 93US-0090366.
PR 18-JUL-1989; 89US-0381080.
PR 11-DEC-1989; 89US-0450329.
PR 07-FEB-1990; 90US-0479661.
XX
XX (AMGE-) AMGEN INC.
PA
XX
XX Squires C, King MW, Hale KK, Brewer MT, Thompson RC;
PI Vanderajice RW, Vannice J, Kohno T;
XX
XX WPI, 2001-006443/01.
DR
XX P-PSDB; AAB37686.
XX
XX Novel 30 kDa tumor necrosis factor inhibitor analog comprising a
PT non-native cysteine residue cross-linked with polyethylene glycol,
PT useful for treating inflammatory and degenerative diseases mediated by
PT TNF -
XX
XX Example 12; Fig 39; 82pp; English.
XX

```

```

CC The present invention relates to Tumour Necrosis Factor (TNF) inhibitors
CC (see AAB37676 and AAB37685), which have TNF inhibitory activity. The
CC novel TNF inhibitors of the present invention are useful as therapeutic
CC agents for inhibiting the activity of TNF and interleukin (IL-1), and
CC for treating inflammatory and degenerative diseases mediated by TNF. The
CC present sequence is the coding sequence for the precursor of 40 kDa TNF
CC inhibitor. The 40 kDa TNF inhibitor can inhibit both TNF alpha and beta
CC (lymphotoxin).
XX
XX Sequence 2394 BP; 484 A; 743 C; 738 G; 428 T; 1 other;

Query Match      62.7%; Score 32; DB 22; Length 2394;
Best Local Similarity 100.0%; Pred. No. 1.9e-07;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAAGCCTCTGCTGCATGCTGTCCCTCT 51
DB 1672 GGAAAGCCTCTGCTGCATGCTGTCCCTCT 1703

RESULT 14
AAL29880
ID AAL29880 standard; DNA; 51 BP.
XX
XX AAL29880;
AC
XX
XX 24-JAN-2002 (first entry)
DT
XX
DE Human SNP oligonucleotide #3088.
XX
XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinase; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200147944-A2.
PN
XX
XX 05-JUL-2001.
PD
XX
XX 28-DEC-2000; 2000MO-US35498.
PF
XX 28-DEC-1999; 99US-0173419.
PR 27-DEC-2000; 2000US-0173419.
XX
XX (CURA-) CURAGEN CORP.
PA
XX
XX Shinkets RA, Leach M;
PI
XX
XX WPI; 2001-465210/50.
DR
XX
XX Polymorphic nucleic acids encoding e.g. amyloses, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g.
PT cancer, autoimmune diseases and infections -
XX
XX Claim 1; Page 2271; 4143pp; English.
XX
XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amyloses, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins,
CC G-protein coupled receptors and thioesterases. The present sequence is
CC one such oligonucleotide. The oligonucleotides and the peptides encoded
CC by them may be used in the prevention, diagnosis and treatment of
CC diseases associated with inappropriate expression of the proteins listed
CC above. Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune

```

CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.

XX
 SQ Sequence 51 BP; 11 A; 11 C; 20 G; 9 T; 0 other;

Query Match 49.0%; Score 25; DB 22; Length 51;
 Best Local Similarity 100.0%; Pred.No. 0.00098;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GGAAGCCTCTGCTGCCATGTGTG 44
 DB 27 GGAAGCCTCTGCTGCCATGTGTG 51

RESULT 15

ABK33462
 ID ABK33462 standard; DNA; 23 BP.

XX
 AC ABK33462;

XX
 DT 23-APR-2002 (first entry)

XX Human TNF-receptor II 3'UNT nt 1630 (T/C) TET probe (T allele).

XX Human; anti-tumour necrosis factor receptor II; TNF receptor II;
 KM TNF receptor I; infliximab therapy; Crohn's disease; malignant disorder;
 KM inflammatory disorder; chronic disease; receptor; probe; ss.

XX Homo sapiens.

XX EPI172444-A1.

XX 16-JAN-2002.

XX 10-JUL-2000; 2000EP-0114786.

XX 10-JUL-2000; 2000EP-0114786.

XX (CONA-) CONARIS RES INST GMBH.

PI Schreiber S, Hampe J, Mascheretti S;

DR WPI; 2002-156651/21.

PT Detecting non-responders to anti-human necrosis factor therapy,
 PT comprises testing an individual for homozygosity for a single
 PT nucleotide polymorphism in the gene coding for the tumour necrosis
 PT factor receptor II -

PS Disclosure; Page 8; 45pp; English.

XX The present invention relates to a method for detecting non-responders
 CC to anti-tumour necrosis factor (TNF) therapy. The method involves testing
 CC an individual for homozygosity for at least one single nucleotide
 CC polymorphism (SNP) in the gene coding for TNF receptor II, which is
 CC located on chromosome 1p36. Two novel SNPs, one in exon 2 (position 168
 CC A/G) and one in exon 6 (position 587 T/G) which result in 156651s and
 CC Met196Ays respectively, are also described. The method of the invention
 CC is useful for detecting non-responders to anti-TNF therapy such as
 CC infliximab therapy, or therapy of Crohn's disease. The genes containing
 CC the 2 novel polymorphisms are useful for diagnostic purposes in
 CC inflammatory, malignant or other chronic diseases. The present sequence
 CC represents a TagMan probe used in the methods of the present invention.

XX Sequence 23 BP; 1 A; 8 C; 6 G; 8 T; 0 other;

Query Match 43.1%; Score 22; DB 24; Length 23;
 Best Local Similarity 100.0%; Pred.No. 0.038; Indels 0; Gaps 0;
 Matches 22; Conservative 0; Mismatches 0;

QY 26 CCTCTGCTGCCATGTGTGTCC 47
 DB 1 CCTCTGCTGCCATGTGTGTCC 22

RESULT 16

AAQ10956
 ID AAQ10956 standard; DNA; 2339 BP.

XX
 AC AAQ10956;

XX 09-JAN-2003 (updated)

XX 24-MAY-1991 (first entry)

XX Encodes human 75KD TNF-binding protein.

XX Tumour Necrosis Factor; binding proteins; septic shock;
 KM autoimmune glomerulonephritis; lymphokine; cytokine.

XX Homo sapiens.

XX Key Location/Qualifiers

XX CDS 1..1179

XX /tag= a

XX /product= 75KD TNF-BP

XX EP417563-A.

XX 31-AUG-1990; 90EP-0116707.

XX 20-APR-1990; 90CH-0001347.

XX 12-SEP-1989; 89CH-0003319.

XX 08-MAR-1990; 90CH-0000746.

XX (HOFF) HOFFMANN-LA ROCHE AG.

XX Brockhaus M, Dembic Z, Gentz R, Lesslauer W, Lotscher H;

XX Schlaeger EJ;

XX WPI; 1991-081851/12.

XX P-PEDB; AAR11605.

XX Insoluble tumour necrosis factor binding proteins - and DNA

XX encoding them, useful in pharmaceutical prods. and for antibody

XX prodn.

XX Claim 4; Fig 1; 26pp; German.

XX Partial amino acid sequences were determined for the 55 and 75KD

XX TNF-BPs (see AAR11072-R1081) and oligonucleotide primers were

XX synthesised based on these partial sequences. The primers were used

XX to produce a cDNA fragment for use as a probe to screen a human

XX placental cDNA bank constructed in lambda gt11. Positive clones were

XX identified and sequenced. Repeated sequencing showed a discrepancy

XX at position 7 such that the third codon encodes either Thr or Ser.

XX DNA constructs comprising the TNF-BP coding sequence may also

XX contain a fragment encoding a human Ig domain. Recombinant

XX constructs are used to transform cells to confer improved TNF-

XX binding properties.

XX See also AAQ10955.

XX (Updated on 09-JUN-2003 to add missing OS field.)

SQ Sequence 2339 BP; 494 A; 720 C; 685 G; 439 T; 1 other;

Query Match 41.2%; Score 21; DB 12; Length 2339;
 Best Local Similarity 100.0%; Pred.No. 0.12; Indels 0; Gaps 0;
 Matches 21; Conservative 0; Mismatches 0;

QY 20 GGAAGCCTCTGCTGCCATGTG 40
 DB 1372 GGAAGCCTCTGCTGCCATGTG 1392

```

RESULT 17
AAZ09171
ID AAZ09171 standard; cDNA; 2339 BP.
XX
XX AAZ09171;
XX
XX 20-MAR-2003 (updated)
DT 18-OCT-1999 (first entry)
XX
XX Human tumour necrosis factor binding protein cDNA fragment.
XX
XX Tumour necrosis factor binding protein; TNF; insoluble protein; agonist;
XX anti-inflammatory; antimalarial; treatment; septic shock; inflammation;
XX autoimmune glomerulonephritis; cerebral malaria; immune response;
XX antagonist; diagnosis; ds.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH 1..1179
FT CDS /*tag= a
FT /product= "TNF binding protein"
FT /note= "Partial sequence, no start codon given"
XX
XX EP939121-A2.
XX
XX 01-SEP-1999.
XX
XX 31-AUG-1990; 99EP-0100703.
XX
XX 12-SEP-1989; 89CH-00003319.
XX 08-MAR-1990; 90CH-0000746.
XX 20-APR-1990; 90CH-0001347.
XX 31-AUG-1990; 90EP-0116707.
XX
XX (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
XX Brockhaus M, Dembic Z, Gentz R, Leselauer W, Loetscher H;
XX Schlegel E;
XX WPI; 1999-480840/41.
XX P-PSDB; AAY30935.
XX
XX New insoluble proteins, and fragments, that bind to tumor necrosis
XX factor, used to treat e.g. septic shock or cerebral malaria
XX
XX Claim 4a; Fig 4; 25pp; German.
XX
XX This invention describes novel homogeneous insoluble proteins (I),
XX their (in)soluble fragments (Ia) and their salts that can bind tumour
XX necrosis factor (TNF). The products of the invention have
XX anti-inflammatory and antimalarial activity. (I) and (Ia) are used (i)
XX to treat diseases in which TNF is involved (e.g. septic shock, autoimmune
XX glomerulonephritis, cerebral malaria, immune responses and inflammation),
XX (ii) to purify TNF, (iii) to identify TNF (ant)agonists and (iv) for
XX diagnostic determination of TNF in body fluids. Antibodies raised against
XX (I) are used for affinity purification of (I). This sequence encodes
XX a tumour necrosis factor binding protein fragment described in the method
XX of the invention.
XX
XX (Updated on 20-MAR-2003 to correct PF field.)
XX
XX Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
SQ
Query Match 41.2%; Score 21; DB 20; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAAGCCTCTGCTGCCATGG 40
Db 1372 GGAAAGCCTCTGCTGCCATGG 1392

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RESULT 18
AAH48860
ID AAH48860 standard; DNA; 2339 BP.
XX
XX AAH48860;
XX
XX 12-NOV-2001 (first entry)
DT
XX
XX Human TNFBP-associated DNA #2.
XX
XX TNF; tumor necrosis factor binding protein; TNFBP; treatment;
XX insoluble protein; anti-inflammatory; immunosuppressive; antibacterial;
XX antiprotozoal; treatment; meningococcal sepsis; cerebral malaria;
XX autoimmune glomerulonephritis; ds.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH 1..1179
FT CDS /*tag= a
FT /product= "TNFBP-associated protein"
XX
XX EP132471-A2.
XX
XX 12-SEP-2001.
XX
XX 31-AUG-1990; 201EP-0108117.
XX
XX 12-SEP-1989; 89CH-00003319.
XX 08-MAR-1990; 90CH-0000746.
XX 20-APR-1990; 90CH-0001347.
XX 31-AUG-1990; 90EP-0116707.
XX 31-AUG-1990; 99EP-0100703.
XX
XX (HOFF ) HOFFMANN LA ROCHE & CO AG F.
XX
XX Brockhaus M, Dembic Z, Gentz R, Leselauer W, Loetscher H;
XX Schlegel E;
XX WPI; 2001-559312/63.
XX P-PSDB; AAB86818.
XX
XX New homogeneous, insoluble proteins that bind tumor necrosis factor
XX (TNF), useful for treating TNF-mediated disorders, e.g. inflammation
XX
XX Claim 4a; Fig 4; 26pp; German.
XX
XX This invention describes novel insoluble proteins (I), also their
XX (in)soluble fragments and pharmaceutically acceptable salts, able to bind
XX tumor necrosis factor (TNF) and in homogeneous form. The products of the
XX invention have anti-inflammatory, immunosuppressive, antibacterial,
XX antiprotozoal activity. (I), and related recombinant proteins, are used
XX to treat diseases mediated by TNF, e.g. shock in cases of meningococcal
XX sepsis; development of autoimmune glomerulonephritis and cerebral
XX malaria. Also (I), or antibodies specific for them, are used for
XX diagnostic determination of TNF in body fluids, for affinity purification
XX of TNF and for identifying (ant)agonists of TNF. This sequence encodes a
XX human TNF binding protein described in the method of the invention.
XX
XX Sequence 2339 BP; 494 A; 720 C; 685 G; 440 T; 0 other;
SQ
Query Match 41.2%; Score 21; DB 22; Length 2339;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 20 GGAAAGCCTCTGCTGCCATGG 40
Db 1372 GGAAAGCCTCTGCTGCCATGG 1392

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RESULT 19

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ABQ74767
ID ABQ74767 standard; DNA; 15602 BP.
XX
AC ABQ74767;
XX
XX
DT 24-OCT-2002 (first entry)
XX
DE Human TNFR2 partial genomic sequence SEQ ID NO:17.
XX
XX Tumour necrosis factor receptor 2; TNFR2; antisense oligonucleotide;
XX gene; ds.
XX
OS Homo sapiens.
XX
XX US6410324-B1.
XX
XX 25-JUN-2002.
XX
XX 27-APR-2001; 2001US-0844634.
XX
XX 27-APR-2001; 2001US-0844634.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett CF, Watt AT;
XX
XX WPI; 2002-606814/65.
XX
XX
XX New compounds antisense to nucleic acid encoding human or mouse tumor
XX necrosis factor receptor 2 are useful to treat disease associated with
XX mouse tumor necrosis factor receptor 2 expression
XX
XX Claim 1; Column 67-80; 69pp; English.
XX
XX
XX The present invention describes compounds of 8-30 nucleobases antisense
XX to a nucleic acid encoding human or mouse tumour necrosis factor
XX receptor 2 (TNFR2). Also described is a method for inhibiting expression
XX of human or mouse TNFR2 comprising contacting cells or tissues in vitro
XX with one of the claimed compounds. The antisense compounds are used to
XX treat a disease or condition associated with expression of TNFR2. The
XX present sequence represents a partial genomic sequence of human TNFR2,
XX which is used in an example from the present invention.
XX
XX Sequence 15602 BP; 3439 A; 4290 C; 4227 G; 3646 T; 0 other;
XX
XX
XX Query Match 41.2%; Score 21; DB 24; Length 15602;
XX Best Local Similarity 100.0%; Pred. NO. 0.12;
XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 20 GGAAAGCCTCTGTCGCATGG 40
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XX DB 11202 GGAAAGCCTCTGTCGCATGG 11222

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Search completed: December 16, 2003, 19:45:04
 Job time : 145 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 20:05:42 ; Search time 149 Seconds

(without alignments)
1137.608 Million cell updates/sec

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Gapop 60.0 , Gapext 60.0

Searched: 2201672 seqs, 1661799599 residues

Word size : 20

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 100 summaries

Database :

Published Applications NA.*
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17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	51	100.0	2224	10 US-09-800-908-2	Sequence 2, Appl1
3	51	100.0	2613	13 US-10-101-510-675	Sequence 675, App
4	51	100.0	3683	10 US-09-954-456-1187	Sequence 1187, App
5	51	100.0	3683	11 US-09-903-176A-49	Sequence 49, Appl
6	51	100.0	3683	11 US-09-903-176A-51	Sequence 51, Appl
7	51	100.0	3683	11 US-09-902-176A-53	Sequence 53, Appl
8	51	100.0	3683	13 US-10-101-510-22	Sequence 22, Appl
9	22	43.1	23	11 US-09-902-176A-46	Sequence 46, Appl
10	21	41.2	3492	15 US-10-207-655-191	Sequence 191, App

ALIGNMENTS

RESULT 1
US-09-800-909-1
; Sequence 1, Application US/09800909
; Patent No. US2001001983A1
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/800,909
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,862
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 94039
; FILING DATE: 06-APR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 91229
; FILING DATE: 06-AUG-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 90339
; FILING DATE: 18-MAY-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: 25,618
; REFERENCE/DOCKET NUMBER: WALLACH=12A
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2224 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 90..1472
; US-09-800-909-1

Query Match 100.0%; Score 51; DB 9; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGATTGGGAAAGCCCTGCTGCGCATGCGTGCCTCT 51
DB 1650 AGCAGAGCAGCAGATTGGGAAAGCCCTGCTGCGCATGCGTGCCTCT 1700

RESULT 2
US-09-800-908-2
; Sequence 2, Application US/09800908
; Patent No. US20020111462A1
; GENERAL INFORMATION:

APPLICANT: WALLACH, David
BIGDA, Jacek
BELETSKY, Igor
METT, Igor
TITLE OF INVENTION: TNF LIGANDS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/800,908
FILING DATE: 08-Mar-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/477,347
FILING DATE: <Unknown>
APPLICATION NUMBER: IL 106271
FILING DATE: 08-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, G. Kevin
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: WALLACH=10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90..1472
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-800-908-2
Query Match 100.0%; Score 51; DB 10; Length 2224;
Best Local Similarity 100.0%; Pred. No. 6.8e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGGAGGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 51
DB 1650 AGCAGAGGAGGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 1700
RESULT 3
US-10-101-510-675
Sequence 675, Application US/10101510
Publication No. US20030148295A1
GENERAL INFORMATION:
APPLICANT: WAN, JACKSON
APPLICANT: WANG, YIXIN
TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
FILE REFERENCE: 15117.0012
CURRENT APPLICATION NUMBER: US/10/101,510
PRIOR FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/276,947
PRIOR FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 805
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 675

LENGTH: 2613
TYPE: DNA
ORGANISM: Homo sapiens
US-10-101-510-675
Query Match 100.0%; Score 51; DB 13; Length 2613;
Best Local Similarity 100.0%; Pred. No. 6.7e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AGCAGAGGAGGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 51
DB 580 AGCAGAGGAGGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 630
RESULT 4
US-09-954-456-1187
Sequence 1187, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Canc
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456
FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US/60/233,617
FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US/60/234,052
FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: US/60/234,923
FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,134
FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,637
FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,638
FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,711
FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,720
FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,840
FILING DATE: 2000-09-27
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,863
FILING DATE: 2000-09-27
NUMBER OF SEQ ID NOS: 2276
SOFTWARE: Patentin version 3.0
SEQ ID NO 1187
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
US-09-954-456-1187
Query Match 100.0%; Score 51; DB 10; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6.3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1650 AGCAGAGGAGGAGGAGTTGGGGAAGCCTGCTGCCATGATGTCCTCT 1700
RESULT 5
US-09-902-176A-49
Sequence 49, Application US/09902176A
Publication No. US2003009943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Hampe, Jochen
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
TITLE OF INVENTION: No. US2003009943A1-Responders to Anti-TNF-Therapy

FILE REFERENCE: 25481-P001US
CURRENT APPLICATION NUMBER: US/09/902,176A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: EP 00114786.7
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 49
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)..(1475)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (156)
US-09-902-176A-49

Query Match 100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 1700

RESULT 6
US-09-902-176A-51
Sequence 51, Application US/09902176A
Publication No. US20030099943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
FILE REFERENCE: 25481-P001US
CURRENT APPLICATION NUMBER: US/09/902,176A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: EP 00114786.7
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 51
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)..(1475)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (156)
US-09-902-176A-51

Query Match 100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 1700

RESULT 7
US-09-902-176A-53
Sequence 53, Application US/09902176A
Publication No. US20030099943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting

APPLICANT: Hampe, Jochen
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting
FILE REFERENCE: 25481-P001US
CURRENT APPLICATION NUMBER: US/09/902,176A
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: EP 00114786.7
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 53
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)..(1475)
FEATURE:
NAME/KEY: mat_peptide
LOCATION: (156)
US-09-902-176A-53

Query Match 100.0%; Score 51; DB 11; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 1700

RESULT 8
US-10-101-510-22
Sequence 22, Application US/10101510
Publication No. US20030148295A1
GENERAL INFORMATION:
APPLICANT: WAN, JACKSON
APPLICANT: WANG, YIXIN
TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
FILE REFERENCE: 15117,0012
CURRENT APPLICATION NUMBER: US/10/101,510
CURRENT FILING DATE: 2002-03-20
PRIOR APPLICATION NUMBER: 60/276,947
PRIOR FILING DATE: 2001-03-20
NUMBER OF SEQ ID NOS: 805
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 22
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
US-10-101-510-22

Query Match 100.0%; Score 51; DB 13; Length 3683;
Best Local Similarity 100.0%; Pred. No. 6,3e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 51
DB 1650 AGCAGAGCAGCAGGAGTTGGGAAAGCCTCTGCTGCGCATGTGTGTCCTCT 1700

RESULT 9
US-09-902-176A-46
Sequence 46, Application US/09902176A
Publication No. US20030099943A1
GENERAL INFORMATION:
APPLICANT: Schreiber, Stefan
APPLICANT: Hampe, Jochen
APPLICANT: Mascheretti, Silvia
TITLE OF INVENTION: Diagnostic Use of Polymorphisms in the Gene Coding for
TITLE OF INVENTION: the TNF Receptor II and Method for Detecting

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; TITLE OF INVENTION: No. US20030099943A1-Responders to Anti-TNF-Therapy
; FILE REFERENCE: 25481-POOLUS
; CURRENT APPLICATION NUMBER: US/09/902,176A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: EP 00114786.7
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: TET Probe#
US-09-902-176A-46

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Query Match          43.1%; Score 22; DB 11; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.043;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      26 CCTCTGCTGCATGCTGTGTC 47
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RESULT 10
US-10-207-655-191
; Sequence 191, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Hayden-Ledbetter, Martha S.
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401c1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 191
; LENGTH: 3492
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-207-655-191

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Query Match          41.2%; Score 21; DB 15; Length 3492;
Best Local Similarity 100.0%; Pred. No. 0.063;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      20 GGAAAGCCTCTGCTGCCATGG 40
      1472 GGAAAGCCTCTGCTGCCATGG 1492

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Job time : 150 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 16, 2003, 19:40:17 ; Search time 45 Seconds
(without alignments)
500.234 Million cell updates/sec

Title: US-09-856-937a-1_COPY_580_630

Perfect score: 51
Sequence: 1 agcagagcagcagcagctcg9.....ctgcacatggtgtccctct 51

Scoring table: OLIGO_NWC
Gapop 60.0 , Gapext 60.0

Searched: 569978 seqs, 220691566 residues

Word size : 20

Total number of hits satisfying chosen parameters: 5

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 100 summaries

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3: /cgn2_6/prodata/1/ina/6A_COMB.seq: *
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6: /cgn2_6/prodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	51	100.0	2224	3	US-08-476-862-1
3	51	100.0	2224	4	US-09-800-909-1
4	51	100.0	3683	4	US-09-844-634-3
5	21	41.2	15602	4	US-09-844-634-17

ALIGNMENTS

RESULT 1
US-08-477-347-2
; Sequence 2, Application US/08477347
; Patent No. 6232446
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; TITLE OF INVENTION: TNF LIGANDS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA

ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/477,347
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/115,685
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 106271
FILING DATE: 08-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, G. Kevin
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: WALLACH=10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90..1472
US-08-477-347-2

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGGATTGGGAAAGCTTGCTCCATGTTGTCCTCT 51
|||||
DB 1650 AGCAGAGCAGCAGGATTGGGAAAGCTTGCTCCATGTTGTCCTCT 1700
|||||

RESULT 2
US-08-476-862-1
; Sequence 1, Application US/08476862
; Patent No. 6262239
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek
; APPLICANT: BELETSKY, Igor
; APPLICANT: METT, Igor
; APPLICANT: ENGELMANN, Hartmut
; TITLE OF INVENTION: TNF INHIBITORS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,862
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 107267
FILING DATE: 12-OCT-1993
PRIOR APPLICATION DATA: IL 94039
APPLICATION NUMBER: IL 94039
FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90..1472
US-08-476-862-1

Query Match 100.0%; Score 51; DB 3; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18; Indels 0; Gaps 0;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
DB 1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 3
US-09-800-909-1
Sequence 1, Application US/09800909
Patent No. 6555111
GENERAL INFORMATION:
APPLICANT: WALLACH, David
APPLICANT: BIGDA, Jacek
APPLICANT: BELETSKY, Igor
APPLICANT: METT, Igor
APPLICANT: ENGELMANN, Hartmut
TITLE OF INVENTION: TNF INHIBITORS
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/800,909
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/476,862
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 94039

FILING DATE: 06-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 91229
FILING DATE: 06-AUG-1989
PRIOR APPLICATION DATA: IL 90339
APPLICATION NUMBER: IL 90339
FILING DATE: 18-MAY-1989
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=12A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2224 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 90..1472
US-09-800-909-1

Query Match 100.0%; Score 51; DB 4; Length 2224;
Best Local Similarity 100.0%; Pred. No. 2.6e-18; Indels 0; Gaps 0;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
DB 1650 AGCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 4
US-09-844-634-3
Sequence 3, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION
FILE REFERENCE: RTS-0216
CURRENT APPLICATION NUMBER: US/09/844,634
CURRENT FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 174
SEQ ID NO 3
LENGTH: 3683
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (90)...(1475)
US-09-844-634-3

Query Match 100.0%; Score 51; DB 4; Length 3683;
Best Local Similarity 100.0%; Pred. No. 2.5e-18; Indels 0; Gaps 0;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ACCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 51
DB 1650 ACCAGAGCAGCAGAGTTGGGAAAGCCTCTGCTGCCATGCTGTGCTCT 1700

RESULT 5
US-09-844-634-17
Sequence 17, Application US/09844634
Patent No. 6410324
GENERAL INFORMATION:
APPLICANT: C. Frank Bennett
APPLICANT: Andrew T. Watt
TITLE OF INVENTION: ANTISENSE MODULATION OF TUMOR NECROSIS FACTOR RECEPTOR 2 EXPRESSION

; FILE REFERENCE: RTS-0216
; CURRENT APPLICATION NUMBER: US/09/844,634
; CURRENT FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 174
; SEQ ID NO 17
; LENGTH: 15602
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-844-634-17

Query Match 41.2%; Score 21; DB 4; Length 15602;
Best Local Similarity 100.0%; Pred. NO. 0.019;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 20 GGAAAGCCTCTGTCGCATGG 40
|||
Db 11202 GGAAAGCCTCTGTCGCATGG 11222

Search completed: December 16, 2003, 20:28:33
Job time : 45 secs

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